mAChR

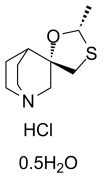
Muscarinic acetylcholine receptor

mAChRs (muscarinic acetylcholine receptors) are acetylcholine receptors that form G protein-receptor complexes in the cell membranes of certainneurons and other cells. They play several roles, including acting as the main end-receptor stimulated by acetylcholine released from postganglionic fibersin the parasympathetic nervous system. mAChRs are named as such because they are more sensitive to muscarine than to nicotine. Their counterparts are nicotinic acetylcholine receptors (nAChRs), receptor ion channels that are also important in the autonomic nervous system. Many drugs and other substances (for example pilocarpineand scopolamine) manipulate these two distinct receptors by acting as selective agonists or antagonists. Acetylcholine (ACh) is a neurotransmitter found extensively in the brain and the autonomic ganglia.

(+)-Cevimeline hydrochloride hemihydrate

((+)-SNI-2011; (+)-AF102B hydrochloride hemihydrate) Cat. No.: HY-76772A

(+)-Cevimeline hydrochloride hemihydrate ((+)-SNI-2011), a potent muscarinic receptor agonist, is a candidate therapeutic drug for xerostomia in Sjogren's syndrome. IC50 value: Target: mAChR The general pharmacol.

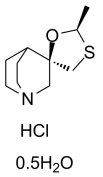


Purity: >98%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 1 mg, 5 mg

(-)-Cevimeline hydrochloride hemihydrate

((-)-SNI-2011; (-)-AF102B hydrochloride hemihydrate) Cat. No.: HY-76772B

(-)-Cevimeline hydrochloride hemihydrate ((-)-SNI-2011), a novel muscarinic receptor agonist, is a candidate therapeutic drug for xerostomia in Sjogren's syndrome. IC50 value: Target: mAChR The general pharmacol.

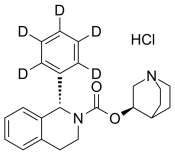


Purity: >98%
Clinical Data: Launched
Size: 10 mM × 1 mL, 1 mg, 5 mg

(1R,3S-)Solifenacin-d5 hydrochloride

Cat. No.: HY-135329S

(1R,3S-)Solifenacin-d5 hydrochloride is the deuterium labeled Solifenacin D5 hydrochloride. Solifenacin D5 hydrochloride is a deuterium labeled Solifenacin hydrochloride.

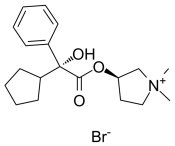


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

(R,R)-Glycopyrrolate ((R,R)-Glycopyrronium bromide; (R,R)-Glycopyrrolate bromide)

Cat. No.: HY-B0761

(R,R)-Glycopyrrolate ((R,R)-Glycopyrronium (bromide); (R,R)-Glycopyrrolate (bromide)) is an **anticholinergic** agent.

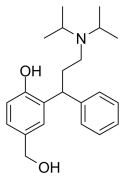


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

(Rac)-5-Hydroxymethyl Tolterodine

((Rac)-Desfesoterodine; (Rac)-PNU-200577) Cat. No.: HY-76570

(Rac)-5-Hydroxymethyl Tolterodine ((Rac)-Desfesoterodine), an active metabolite of Tolterodine, is a **mAChR** antagonist (K_i values of 2.3 nM, 2 nM, 2.5 nM, 2.8 nM, and 2.9 nM for **M1**, **M2**, **M3**, **M4**, and **M5 receptors**, respectively).

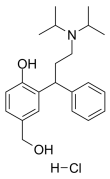


Purity: >98%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

(Rac)-5-Hydroxymethyl Tolterodine hydrochloride

((Rac)-Desfesoterodine hydrochloride; ...) Cat. No.: HY-76570A

(Rac)-5-Hydroxymethyl Tolterodine ((Rac)-Desfesoterodine) hydrochloride, an active metabolite of Tolterodine, is a **mAChR** antagonist (K_i values of 2.3 nM, 2 nM, 2.5 nM, 2.8 nM, and 2.9 nM for **M1**, **M2**, **M3**, **M4**, and **M5 receptors**,...

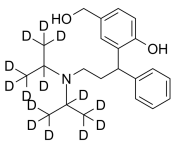


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

(Rac)-5-Hydroxymethyl Tolterodine-d14

((Rac)-Desfesoterodine-d14; (Rac)-PNU-200577-d14) Cat. No.: HY-76570S

(Rac)-5-Hydroxymethyl Tolterodine-d14 ((Rac)-Desfesoterodine-d14) is the deuterium labeled (Rac)-5-Hydroxymethyl Tolterodine.

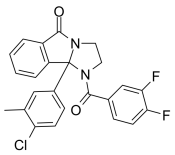


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 10 mg

(Rac)-VU 6008667

Cat. No.: HY-101281A

(Rac)-VU 6008667 is a selective negative allosteric modulator of muscarinic acetylcholine receptor subtype 5 (**M5 NAM**) (IC_{50}=1.8 μM, pIC_{50}= 5.75), has high CNS penetration.

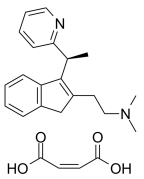


Purity: >98%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg, 25 mg, 50 mg

(S)-(+)-Dimethindene maleate

Cat. No.: HY-107647

(S)-(+)-Dimethindene maleate, an enantiomer, is a potent M_2-selective muscarinic receptor antagonist (pA_2 = 7.86/7.74; pK_i = 7.78).

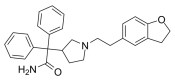


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

(±)-Darifenacin

((±)-UK-88525) Cat. No.: HY-22437

(±)-Darifenacin is the racemate of Darifenacin. Darifenacin is a selective M3 muscarinic receptor antagonist.



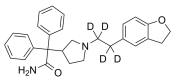
Purity: 98.10%
Clinical Data: Launched
Size: 10 mM × 1 mL, 50 mg, 100 mg

(±)-Darifenacin-d4

((±)-UK-88525-d4)

Cat. No.: HY-22437S

(±)-Darifenacin-d4 is deuterium labeled (±)-Darifenacin. (±)-Darifenacin is the racemate of Darifenacin. Darifenacin is a selective M3 muscarinic receptor antagonist.



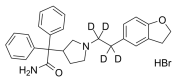
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

(±)-Darifenacin-d4 hydrobromide

((±)-UK-88525-d4 hydrobromide)

Cat. No.: HY-22437S1

(±)-Darifenacin-d4 (hydrobromide) is deuterium labeled (±)-Darifenacin. (±)-Darifenacin is the racemate of Darifenacin. Darifenacin is a selective M3 muscarinic receptor antagonist.



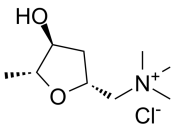
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

(±)-Muscarine chloride

(DL-Muscarin chloride)

Cat. No.: HY-139126

(±)-Muscarine chloride is the racemate of Muscarine chloride. Muscarine is a prototype muscarinic acetylcholine receptor agonist.



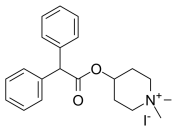
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

4-DAMP

(4-DAMP methiodide)

Cat. No.: HY-100958

4-DAMP is a potent antagonist of **M3 receptor** and also has a high affinity for the closely-related **M5 receptor**.

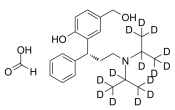


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

5-Hydroxymethyl Tolterodine-d14 (formate)

Cat. No.: HY-76570S1

5-Hydroxymethyl Tolterodine-d14 (formate) is deuterium labeled (Rac)-5-Hydroxymethyl Tolterodine.

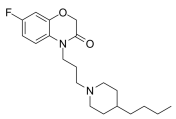


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

AC260584

Cat. No.: HY-100336

AC260584 is an **M1** muscarinic receptor allosteric agonist with a **pEC_{50}** of 7.6.



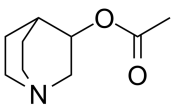
Purity: 99.25%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 1 mg, 5 mg, 10 mg, 50 mg, 100 mg

Aceclidine

(Quinuclidin-3-yl acetate)

Cat. No.: HY-32067

Aceclidine is a modulator of **M3 muscarinic acetylcholine receptor**. Aceclidine is a cycloplegic agent, a surfactant, a tonicity adjustor and optionally a viscosity enhancer and an antioxidant.



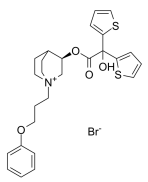
Purity: >98%
Clinical Data: No Development Reported
Size: 100 mg, 500 mg

Aclidinium Bromide

(LAS 34273; LAS-W 330)

Cat. No.: HY-14144

Aclidinium Bromide (LAS 34273; LAS-W 330) is a long-acting, inhaled **muscarinic** antagonist. Aclidinium Bromide has the potential for chronic obstructive pulmonary disease (COPD) research.

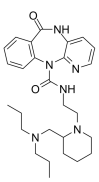


Purity: 98.08%
Clinical Data: Launched
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

AF-DX 384

Cat. No.: HY-107652

AF-DX 384 is a selective antagonist of M2 and M4 muscarinic acetylcholine receptors (K_is=6.03 and 10 nM, respectively). AF-DX 384 reverses deficits in novel object recognition and passive avoidance in aged rats, as well as in young rats with impairments induced by scopolamine.



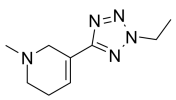
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Alvameline

(Lu 25-109)

Cat. No.: HY-101586

Alvameline (Lu25-109) is a partial **M1** agonist and **M2/M3** antagonist.

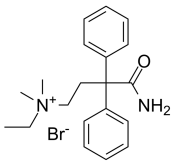


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Ambutonium bromide

(BL700) Cat. No.: HY-U00067

Ambutonium bromide is an acetylcholine antagonist.

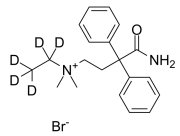


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Ambutonium-d5 bromide

(BL700-d5) Cat. No.: HY-U00067S

Ambutonium-d5 bromide (BL700-d5) is the deuterium labeled Ambutonium bromide. Ambutonium bromide is an acetylcholine antagonist.

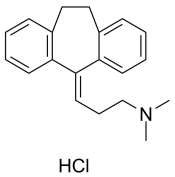


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Amitriptyline hydrochloride

Cat. No.: HY-B0527A

Amitriptyline hydrochloride is an inhibitor of **serotonin reuptake transporter (SERT)** and **noradrenaline reuptake transporter (NET)**, with K_is of 3.45 nM and 13.3 nM for human SERT and NET, respectively.

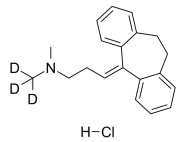


Purity: 99.56%
Clinical Data: Launched
Size: 10 mM × 1 mL, 500 mg, 1 g, 5 g

Amitriptyline-d3 hydrochloride

Cat. No.: HY-135096

Amitriptyline-d3 hydrochloride is the deuterium labeled Amitriptyline (hydrochloride).

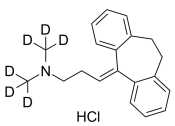


Purity: >98%
Clinical Data: No Development Reported
Size: 2.5 mg, 1 mg, 5 mg, 10 mg

Amitriptyline-d6 hydrochloride

Cat. No.: HY-B0527AS

Amitriptyline-d6 hydrochloride is the deuterium labeled Amitriptyline hydrochloride.

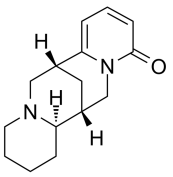


Purity: >98%
Clinical Data: No Development Reported
Size: 2.5 mg, 1 mg, 5 mg, 25 mg

Anagyrine

((-)-Anagyrine; Monolupine; Rhombinine) Cat. No.: HY-121027

Anagyrine is an alkaloid that has been found in **L. albus** and has nematocidal and anticancer activities.It binds to **muscarinic and nicotinic acetylcholine receptors (AChRs)** with IC_{50} values of 132 and 2096 μM respectively.

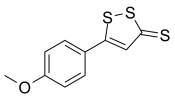


Purity: >98%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg, 25 mg

Anethole trithione

Cat. No.: HY-B1223

Anethole trithione, a sulfur heterocyclic choleretic, is a bile secretion-stimulating agent. Anethole trithione enhances salivary secretion and increases mAChRs, and can be used for dry mouth research.

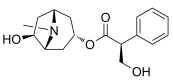


Purity: 99.67%
Clinical Data: Launched
Size: 10 mM × 1 mL, 100 mg, 500 mg

Anisodamine

(6-Hydroxyhyoscyamine) Cat. No.: HY-N0584

Anisodamine (6-Hydroxyhyoscyamine), a belladonna alkaloid, is a non-subtype-selective **muscarinic**, and also a **nicotinic cholinoceptor** antagonist.

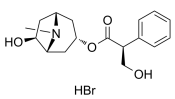


Purity: 98.01%
Clinical Data: Launched
Size: 1 mg, 5 mg

Anisodamine hydrobromide

(6-Hydroxyhyoscyamine hydrobromide) Cat. No.: HY-N0584A

Anisodamine hydrobromide (6-Hydroxyhyoscyamine hydrobromide), a belladonna alkaloid, is a non-subtype-selective **muscarinic** and a **nicotinic cholinoceptor** antagonist. Anisodamine hydrobromide shows antioxidant, anti-inflammatory properties.

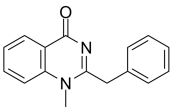


Purity: 98.35%
Clinical Data: Launched
Size: 1 mg, 5 mg

Arborine

Cat. No.: HY-N7004

Arborine inhibits the peripheral action of acetylcholine and induces a fall in blood pressure.

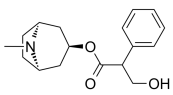


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg, 10 mg

Atropine

(Tropine tropate; DL-Hyoscyamine) Cat. No.: HY-B1205

Atropine (Tropine tropate) is a competitive **muscarinic acetylcholine receptor (mAChR)** antagonist, with anti-myopia effect. Atropine blocks the inhibitory effect of ACh on heart rate and contractility, potentially also leading to tachyarrhythmias.

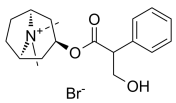


Purity: 99.55%
Clinical Data: Launched
Size: 10 mM × 1 mL, 100 mg

Atropine methyl bromide

(Methylatropine bromide) Cat. No.: HY-112076

Atropine methyl bromide, a **muscarinic receptor (mAChR)** antagonist, is a quaternary ammonium salt of atropine and a mydriatic for dilation of the pupil during ophthalmic examination. It is introduced for relieving pyloric spasm in infants for its highly polar nature.

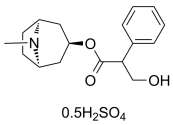


Purity: ≥95.0%
Clinical Data: Launched
Size: 10 mM × 1 mL, 10 mg, 50 mg, 100 mg

Atropine sulfate (Tropine tropate sulfate; DL-Hyoscyamine sulfate; Sulfatropinol)

Cat. No.: HY-B1205A

Atropine (Tropine tropate) sulfate is a broad-spectrum and competitive **muscarinic acetylcholine receptor (mAChR)** antagonist.

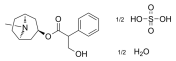


Purity: 98.07%
Clinical Data: Launched
Size: 100 mg

Atropine sulfate monohydrate (Tropine tropate sulfate monohydrate; DL-Hyoscyamine sulfate monohydrate)

Cat. No.: HY-B0394

Atropine (Tropine tropate) sulfate monohydrate is a broad-spectrum and competitive **muscarinic acetylcholine receptor (mAChR)** antagonist with anti-myopia effect.

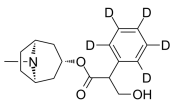


Purity: 99.62%
Clinical Data: Launched
Size: 10 mM × 1 mL, 100 mg

Atropine-d5

(Tropine tropate-d5; DL-Hyoscyamine-d5) Cat. No.: HY-B0394S

Atropine-d5 (Tropine tropate-d5) is the deuterium labeled Atropine (sulfate monohydrate). Atropine (Tropine tropate) sulfate monohydrate is a broad-spectrum and competitive **muscarinic acetylcholine receptor (mAChR)** antagonist with anti-myopia effect.

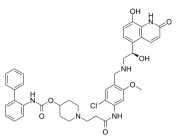


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Batefenterol

(GSK961081; TD-5959) Cat. No.: HY-12980

Batefenterol (GSK961081;TD-5959) is a novel **muscarinic** receptor antagonist and **β_2-adrenoceptor** agonist; displays high affinity for hM2, hM3 muscarinic and hβ_2-adrenoceptor with **K_i** values of 1.4, 1.3 and 3.7 nM, respectively.

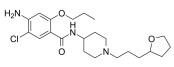


Purity: 98.08%
Clinical Data: Phase 2
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

Benzamide Derivative 1

Cat. No.: HY-U00415

Benzamide Derivative 1 is a benzamide derivative from patent EP0213775A1, compound 18. Benzamide Derivative 1 may be useful in treatment of gastrointestinal disorders.

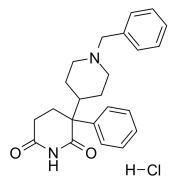


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Benzetimide hydrochloride

(R4929) Cat. No.: HY-B1547A

Benzetimide hydrochloride is a muscarinic acetylcholine receptor antagonist. Target: mAChR.

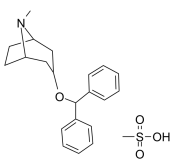


Purity: 99.44%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 10 mg, 50 mg

Benztropine mesylate (Benzatropine mesylate; Benzotropine mesylate; Benztropine methanesulfonate)

Cat. No.: HY-B0520A

Benztropine mesylate (Benzatropine mesylate) is an orally active centrally acting anticholinergic agent that can be used for Parkinson's disease research. Benztropine mesylate is an anti-histamine agent and a **dopamine re-uptake** inhibitor.

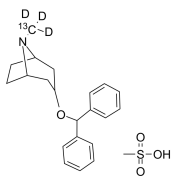


Purity: 99.86%
Clinical Data: Launched
Size: 10 mM × 1 mL, 500 mg, 1 g

Benztropine-13C,d3 mesylate

Cat. No.: HY-B0520AS

Benztropine-13C,d3 (mesylate) is the 13C- and deuterium labeled. Benztropine mesylate (Benzatropine mesylate) is an orally active centrally acting anticholinergic agent that can be used for Parkinson's disease research.



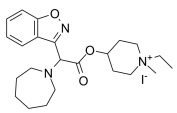
Purity: >98%
Clinical Data:
Size: 1 mg, 5 mg

Beperidium iodide

(SX 810)

Cat. No.: HY-100152

Beperidium iodide shows a competitive antagonistic effect against **acetylcholine receptor** with a **pA2** of 7.93.



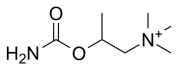
Purity: 99.79%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg, 25 mg, 50 mg

Bethanechol

(Carbamyl-β-methylcholine)

Cat. No.: HY-B0406

Bethanechol (Carbamyl-β-methylcholine), a parasympathomimetic agent, is a **mAChR** agonist that exerts its effects via directly stimulating the mAChR (M1, M2, M3, M4, and M5) of the parasympathetic nervous system.



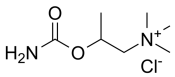
Purity: >98%
Clinical Data: Launched
Size: 500 mg

Bethanechol chloride

(Carbamyl-β-methylcholine chloride)

Cat. No.: HY-B0406A

Bethanechol chloride (Carbamyl-β-methylcholine chloride), a parasympathomimetic agent, is a **mAChR** agonist that exerts its effects via directly stimulating the mAChR (M1, M2, M3, M4, and M5) of the parasympathetic nervous system.



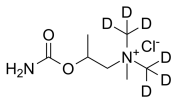
Purity: ≥95.0%
Clinical Data: Launched
Size: 10 mM × 1 mL, 200 mg, 5 g

Bethanechol-d6 chloride

(Carbamyl-β-methylcholine-d6 chloride)

Cat. No.: HY-B0406AS

Bethanechol-d6 (Carbamyl-β-methylcholine-d6) chloride is the deuterium labeled Bethanechol chloride.



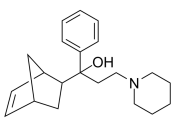
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Biperiden

(KL 373)

Cat. No.: HY-13204A

Biperiden(KL 373) is an antiparkinsonian agent, which is the selective central M1 cholinoreceptors blocker. Target: M1 receptors Biperiden is an antiparkinsonian agent of the anticholinergic type.



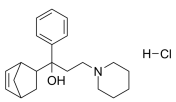
Purity: >98%
Clinical Data: Launched
Size: 1 mg, 5 mg

Biperiden hydrochloride

(KL 373 hydrochloride)

Cat. No.: HY-13204

Biperiden Hydrochloride (KL 373 Hydrochloride) is an antiparkinsonian agent, which is the selective central M1 cholinoreceptors blocker. Target: M1 receptors Biperiden is an antiparkinsonian agent of the anticholinergic type.



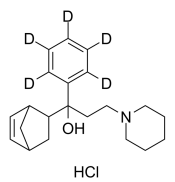
Purity: >98%
Clinical Data: Launched
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

Biperiden-d5 hydrochloride

(KL 373-d5 hydrochloride)

Cat. No.: HY-13204S

Biperiden-d5 (KL 373-d5) hydrochloride is the deuterium labeled Biperiden hydrochloride. Biperiden (KL 373) hydrochloride is an antiparkinsonian agent, which is the selective central M1 cholinoreceptors blocker.

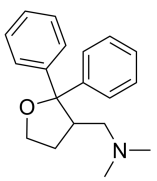


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Blarcamesine

Cat. No.: HY-105296

Blarcamesine is an orally bioavailable **Sigma-1 receptor** agonist and **muscarinic receptor** modulator, with anticonvulsant, anti-amnesic, neuroprotective and antidepressant properties. Blarcamesine ameliorates neurologic impairments in a mouse model of Rett syndrome.

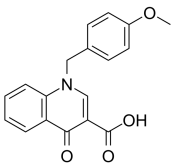


Purity: >98%
Clinical Data: Phase 2
Size: 1 mg, 5 mg

BQCA

Cat. No.: HY-101858

BQCA a highly selective allosteric modulator of the **M1 mAChR**.

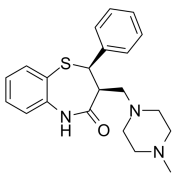


Purity: 98.59%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

BTM-1086

Cat. No.: HY-U00406

BTM-1086 is a potent anti-ulcer and gastric secretory inhibiting agent.



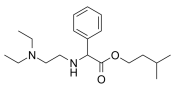
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Tel: 609-228-6898 Fax: 609-228-5909 Email: sales@MedChemExpress.com

Camylofine

Cat. No.: HY-B1230

Camylofin is an antimuscarinic, is a smooth muscle relaxant.



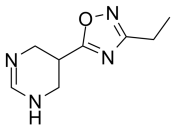
Purity: >98%
Clinical Data: Launched
Size: 1 mg, 5 mg

CDD0102

(CDD0102A)

Cat. No.: HY-U00230

CDD0102 is a potent **M_1 Muscarinic receptor** agonist.



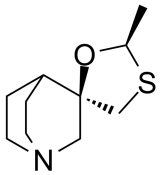
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Cevimeline

(AF102B)

Cat. No.: HY-70020

Cevimeline (AF-102B) is a quinuclidine derivative of acetylcholine and a selective and orally active **muscarinic M1 and M3 receptor** agonist. Cevimeline stimulates secretion by the salivary glands and can be used as a sialogogue for xerostomia.



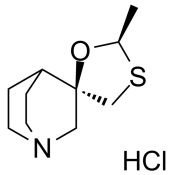
Purity: >98%
Clinical Data: Launched
Size: 5 mg, 10 mg

Cevimeline hydrochloride

(AF102B hydrochloride)

Cat. No.: HY-70020B

Cevimeline hydrochloride (AF102B hydrochloride) is a quinuclidine derivative of acetylcholine and a selective and orally active **muscarinic M1 and M3 receptor** agonist.



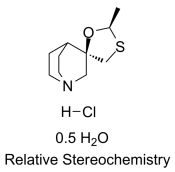
Purity: ≥98.0%
Clinical Data: Launched
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg

Cevimeline hydrochloride hemihydrate

(SNI-2011; AF102B hydrochloride hemihydrate)

Cat. No.: HY-76772

Cevimeline hydrochloride hemihydrate (SNI-2011) is a quinuclidine derivative of acetylcholine and a selective and orally active **muscarinic M1 and M3 receptor** agonist.



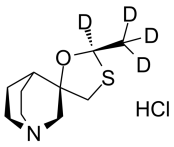
Purity: ≥98.0%
Clinical Data: Launched
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg

Cevimeline-d4 hydrochloride

(AF102B-d4 hydrochloride)

Cat. No.: HY-70020BS

Cevimeline-d4 (AF102B-d4) hydrochloride is the deuterium labeled Cevimeline hydrochloride. Cevimeline hydrochloride (AF102B hydrochloride) is a quinuclidine derivative of acetylcholine and a selective and orally active **muscarinic M1 and M3 receptor** agonist.

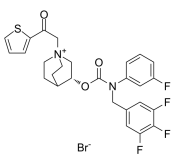


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

CHF5407

Cat. No.: HY-U00302

CHF5407 is a selective, long-acting and competitive **muscarinic M3 receptor** antagonist. CHF5407 shows subnanomolar affinities for human muscarinic M1 (hM1), M2 (hM2) and M3 (hM3) receptors. CHF5407 shows a prolonged antibronchospastic activity.

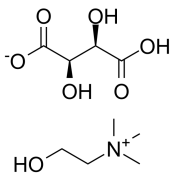


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Choline bitartrate

Cat. No.: HY-101036

Choline bitartrate is a **vitamin-like essential nutrient**, can affect diseases such as liver disease, atherosclerosis and neurological disorders.



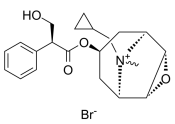
Purity: ≥99.0%
Clinical Data: Launched
Size: 10 mM × 1 mL, 100 mg

Cimetropium Bromide

(DA-3177)

Cat. No.: HY-U00106

Cimetropium Bromide (DA-3177) is a **mAChR** antagonist for long-term treatment of irritable bowel syndrome.



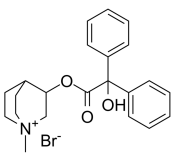
Purity: 96.19%
Clinical Data: Launched
Size: 10 mM × 1 mL, 1 mg, 5 mg, 10 mg, 20 mg

Clidinium bromide

(Ro 2-3773)

Cat. No.: HY-B1132

Clidinium bromide is a quaternary amine **antimuscarinic** agent. Clidinium bromide may help symptoms of cramping and abdominal/stomach pain by decreasing stomach acid, and slowing the intestines in vivo.



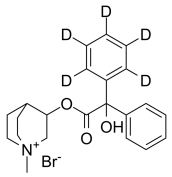
Purity: ≥98.0%
Clinical Data: Launched
Size: 10 mM × 1 mL, 100 mg

Clidinium-D5 bromide

(Ro 2-3773-D5)

Cat. No.: HY-B1132S

Clidinium-D5 bromide (Ro 2-3773-D5) is the deuterium labeled Clidinium bromide. Clidinium bromide is a quaternary amine **antimuscarinic** agent.

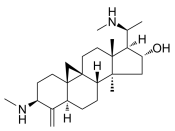


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Cyclobuxine D

Cat. No.: HY-N4080

Cyclobuxine D is a steroidal alkaloid extracted from Buxus microphylla. Cyclobuxine D has a significant bradycardic effect in the rat heart and an inhibitory action on **acetylcholine** and Ba^{++}–induced contraction of the longitudinal muscle isolated from the rabbit jejunum.

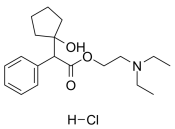


Purity: >98%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg, 25 mg

Cyclodrine hydrochloride

Cat. No.: HY-U00139

Cyclodrine hydrochloride is a cholinergic (muscarinic, nicotinic) (**mAChR** and **nAChR**) receptor antagonist.



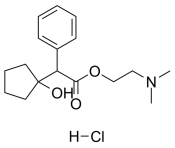
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Cyclopentolate hydrochloride

(DL-Cyclopentolate hydrochloride)

Cat. No.: HY-B1621A

Cyclopentolate (DL-Cyclopentolate) hydrochloride is an Atropine-like **muscarinic receptors** antagonist with a pK_B value of 7.8 (on the circular ciliary muscle). Cyclopentolate hydrochloride is an anti-muscarinic agent commonly used in the ophthalmologic practice.

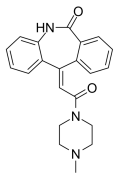


Purity: 99.52%
Clinical Data: Launched
Size: 10 mM × 1 mL, 10 mg, 25 mg, 50 mg, 100 mg

Darenzepine

Cat. No.: HY-100154

Darenzepine is a **muscarinic receptor** inhibitor extracted from patent US 20170095465 A1.



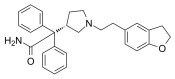
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Darifenacin

(UK-88525)

Cat. No.: HY-A0033

Darifenacin(UK88525) is a selective M3 muscarinic receptor antagonist with pKi of 8.9.



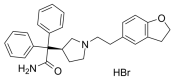
Purity: >98%
Clinical Data: Launched
Size: 5 mg

Darifenacin hydrobromide

(UK-88525 hydrobromide)

Cat. No.: HY-A0012

Darifenacin hydrobromide (UK-88525 hydrobromide) is a selective M3 muscarinic receptor antagonist with pKi of 8.9.

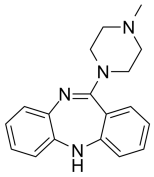


Purity: 98.28%
Clinical Data: Launched
Size: 10 mM × 1 mL, 10 mg, 100 mg

Deschloroclozapine

Cat. No.: HY-42110

Deschloroclozapine, a metabolite of Clozapine, is a highly potent **muscarinic DREADDs** agonist. Deschloroclozapine binds to DREADD receptor subtypes hM3Dq and hM4Di with K_i of 6.3 and 4.2 nM, respectively.



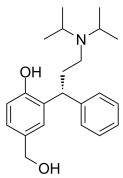
Purity: 99.79%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 10 mg, 50 mg, 100 mg

Desfesoterodine

(PNU-200577; 5-Hydroxymethyl Tolterodine)

Cat. No.: HY-76569

Desfesoterodine (PNU-200577) is a potent and selective **muscarinic receptor (mAChR)** antagonist with a K_B and a pA_2 of 0.84 nM and 9.14, respectively.



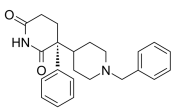
Purity: 99.58%
Clinical Data: Launched
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

Dexetimide

((+)-Benzetimide; (S)-(+)-Dexetimide; Dexbenzetimide)

Cat. No.: HY-105545

Dexetimide ((+)-Benzetimide) is a high-affinity **muscarinic receptor** antagonist and a potent and persistent anticholinergic agent used to treat neuroleptic-induced parkinsonism.



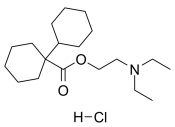
Purity: 99.20%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 10 mg, 50 mg

Tel: 609-228-6898 Fax: 609-228-5909 Email: sales@MedChemExpress.com

Dicyclomine hydrochloride

(Dicycloverine hydrochloride) Cat. No.: HY-B1339

Dicyclomine hydrochloride is a potent and orally active **muscarinic cholinergic receptors** antagonist.

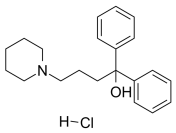


Purity: 99.32%
Clinical Data: Launched
Size: 10 mM × 1 mL, 100 mg, 250 mg, 500 mg

Diphenidol hydrochloride

(Difenidol hydrochloride) Cat. No.: HY-A0082

Diphenidol hydrochloride (Difenidol hydrochloride) is a non-selective **muscarinic M_1-M_4 receptor** antagonist, has anti-arrhythmic activity. Diphenidol hydrochloride is also a potent non-specific blocker of voltage-gated ion channels (Na^+, K^+, and Ca^{2+}) in neuronal cells.

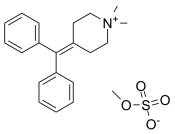


Purity: 99.0%
Clinical Data: Launched
Size: 10 mM × 1 mL, 100 mg

Diphenmanil methylsulfate

(Diphemanil mesylate) Cat. No.: HY-16171

Diphemanil methylsulfate is a quaternary ammonium anticholinergic. It binds muscarinic acetycholine receptors and thereby decreases secretory excretion of stomach acids as well as saliva and sweat.

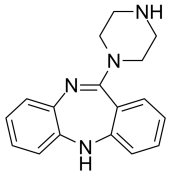


Purity: 99.83%
Clinical Data: Launched
Size: 10 mM × 1 mL, 10 mg, 50 mg

DREADD agonist 21

Cat. No.: HY-100234

DREADD agonist 21 is a potent human muscarinic acetylcholine M3 receptors (**hM3Dq**) agonist (EC_{50}=1.7 nM).

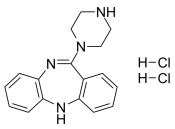


Purity: 98.95%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 2 mg, 5 mg, 10 mg

DREADD agonist 21 dihydrochloride

Cat. No.: HY-100234A

DREADD agonist 21 dihydrochloride is a potent human muscarinic acetylcholine M3 receptors (**hM3Dq**) agonist (EC_{50}=1.7 nM).

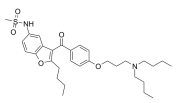


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Dronedarone

(SR 33589) Cat. No.: HY-A0016

Dronedarone (SR 33589), a derivative of amiodarone (HY-14187), is a class Ⅲ **antiarrhythmic agent** for the study of atrial fibrillation (AF) and atrial flutter.

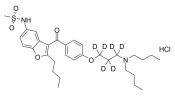


Purity: 99.81%
Clinical Data: Launched
Size: 10 mM × 1 mL, 10 mg, 50 mg

Dronedarone D6 hydrochloride

Cat. No.: HY-A0016S

Dronedarone D6 hydrochloride is the deuterium labeled Dronedarone. Dronedarone hydrochloride, a derivative of Amiodarone (HY-14187), is a class Ⅲ **antiarrhythmic agent** for the study of atrial fibrillation (AF) and atrial flutter.

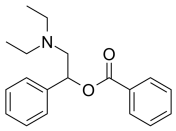


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Elucaine

Cat. No.: HY-101743

Elucaine is a **muscarinic acetylcholine receptor** antagonist with anti-ulcerative activity.

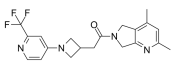


Purity: >98%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg, 50 mg

Emraclidine

(CVL-231) Cat. No.: HY-132812

Emraclidine (CVL-231) is a **muscarinic M4 receptor positive allosteric** modulator (WO2018002760, compound 11). Emraclidine can be used for the research of neurological diseases.

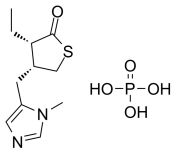


Purity: 99.87%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

ENS-163 phosphate (ENS 213-163; Sandoz ENS 163 phosphate; Thiopilocarpine phosphate)

Cat. No.: HY-U00038

ENS-163 phosphate is a selective **muscarinic M1 receptor** agonist.

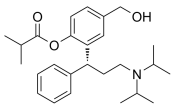


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Fesoterodine

Cat. No.: HY-70053

Fesoterodine is an orally active, nonsubtype selective, competitive **muscarinic receptor (mAChR)** antagonist with **pK_i** values of 8.0, 7.7, 7.4, 7.3, 7.5 for M1, M2, M3, M4, M5 receptors, respectively. Fesoterodine is used for the overactive bladder (OAB).

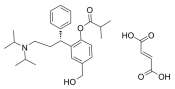


Purity: 99.02%
Clinical Data: Launched
Size: 10 mg, 50 mg, 100 mg, 500 mg

Fesoterodine fumarate

Cat. No.: HY-A0030

Fesoterodine Fumarate is an orally active, nonsubtype selective, competitive **muscarinic receptor (mAChR)** antagonist with **pK_i** values of 8.0, 7.7, 7.4, 7.3, 7.5 for M1, M2, M3, M4, M5 receptors, respectively. Fesoterodine Fumarate is used for the overactive bladder (OAB).

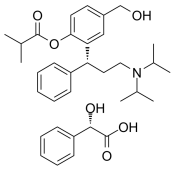


Purity: >98%
Clinical Data: Launched
Size: 10 mM × 1 mL, 10 mg, 50 mg, 100 mg, 500 mg

Fesoterodine L-mandelate

Cat. No.: HY-70053A

Fesoterodine L-mandelate is an orally active, nonsubtype selective, competitive **muscarinic receptor (mAChR)** antagonist with **pK_i** values of 8.0, 7.7, 7.4, 7.3, 7.5 for M1, M2, M3, M4, M5 receptors, respectively. Fesoterodine L-mandelate is used for the overactive bladder (OAB).



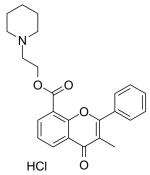
Purity: 98.92%
Clinical Data: Launched
Size: 10 mM × 1 mL, 10 mg, 50 mg, 100 mg, 500 mg

Flavoxate hydrochloride

(Rec-7-0040; DW61)

Cat. No.: HY-B0549A

Flavoxate Hydrochloride(DW-61 Hydrochloride) is a muscarinic AChR antagonist used in various urinary syndromes and as an antispasmodic. Target: mAChR Flavoxate displaces [3H]nitrendipine on the Ca2+ channels binding sites with IC50 of 254 μM .

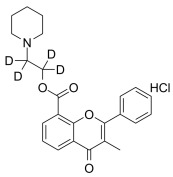


Purity: 99.89%
Clinical Data: Launched
Size: 10 mM × 1 mL, 100 mg, 1 g

Flavoxate-d4 hydrochloride

Cat. No.: HY-B0549AS

Flavoxate-d4 hydrochloride (Rec-7-0040-d4) is the deuterium labeled Flavoxate hydrochloride. Flavoxate Hydrochloride is a muscarinic AChR antagonist used in various urinary syndromes and as an antispasmodic.



Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 10 mg

G-Protein antagonist peptide

Cat. No.: HY-P1376

G-Protein antagonist peptide is the substance P-related peptide that inhibits binding of G proteins to their receptors. G-Protein antagonist peptide competitively and reversibly inhibits **M2 muscarinic receptor** activation of G_i or G_o and inhibits G_s activation by β-adrenoceptors.

{Glp}QWFWWM-NH_2

Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

G-Protein antagonist peptide TFA

Cat. No.: HY-P1376A

G-Protein antagonist peptide TFA is a truncated substance P-related peptide, competes with receptor for G protein binding.

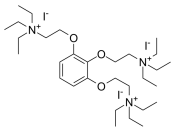
{Glp}QWFWWM-NH_2 (TFA salt)

Purity: 97.35%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg, 10 mg

Gallamine Triethiodide

Cat. No.: HY-B0416

Gallamine Triethiodide is a synthetic nondepolarizing blocking drug. Target: mAChR Gallamine triethiodide is a non-depolarising muscle relaxant.



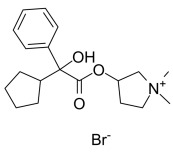
Purity: ≥98.0%
Clinical Data: Launched
Size: 10 mM × 1 mL, 100 mg, 500 mg

Glycopyrrolate

(Glycopyrronium bromide; Glycopyrrolate bromide)

Cat. No.: HY-17465

Glycopyrrolate (Glycopyrronium bromide) is a muscarinic competitive antagonist used as an antispasmodic. IC50 Value: Target: mAChR (Muscarinic acetylcholine receptor M1) in vitro: Glycopyrrolate showed no selectivity in its binding to the M1-M3 receptors.



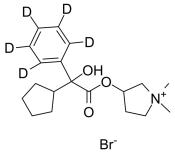
Purity: 99.80%
Clinical Data: Launched
Size: 10 mM × 1 mL, 10 mg, 50 mg, 100 mg

Glycopyrrolate-d5 bromide

(Glycopyrronium-d5 bromide)

Cat. No.: HY-17465S

Glycopyrrolate-d5 (bromide) is deuterium labeled Glycopyrrolate.



Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Guvacoline hydrochloride

Cat. No.: HY-N5016

Guvacoline hydrochloride, a pyridine alkaloid found in Areca triandra, can act as a weak full agonist of atrial and ileal muscarinic receptors.
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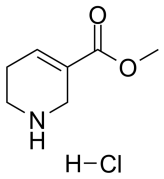
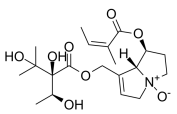


Purity: >98%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg, 25 mg

Heliosupine N-oxide

Cat. No.: HY-131574

Heliosupine N-oxide, Heliosupin metabolite, inhibits muscarinic acetylcholine receptor (**mAChR**) with the IC_{50} of 350 μM. Heliosupine N-oxide is a pyrrolizidine alkaloid (PA).



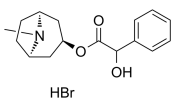
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Homatropine Bromide

(Homatropine hydrobromide)

Cat. No.: HY-B0547A

Homatropine Bromide is muscarinic AChR antagonist that is an anticholinergic medication. Target: mAChR Homatropine is an anticholinergic medication that is an antagonist at muscarinic acetylcholine receptors and thus the parasympathetic nervous system.



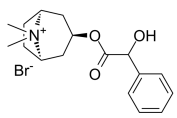
Purity: 99.99%
Clinical Data: Launched
Size: 10 mM × 1 mL, 500 mg, 1 g, 5 g

Homatropine methylbromide

(Homatropine methobromide)

Cat. No.: HY-B1388

Homatropine methylbromide (Homatropine methobromide) is muscarinic AChR antagonist, inhibits endothelial and smooth muscle muscarinic receptors of WKY-E and SHR-E with IC_{50} of 162.5 nM and 170.3 nM, respectively.



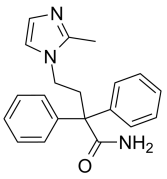
Purity: ≥98.0%
Clinical Data: Launched
Size: 10 mM × 1 mL, 50 mg, 100 mg, 200 mg, 500 mg

Imidafenacin

(KRP-197; ONO-8025)

Cat. No.: HY-B0662

Imidafenacin(KRP-197; ONO-8025) is a potent and selective inhibitor of M3 receptors with Kb of 0.317 nM; less potent for M2 receptors(IC50=4.13 nM). IC50 value: 0.3 nM(M3) in vitro: KRP-197 showed equipotent anti-M2 and anti-M3 activity and decreased subtype-selectivity .

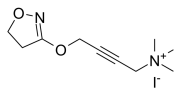


Purity: 99.55%
Clinical Data: Launched
Size: 10 mM × 1 mL, 10 mg, 25 mg, 50 mg

Iperoxo

Cat. No.: HY-122743

Iperoxo is a potent superagonist of **muscarinic acetylcholine receptor (mAChR)**. [^{3}H]Iperoxo can be used for direct probing activation-related conformational transitions of muscarinic receptors.



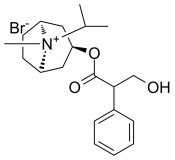
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Ipratropium bromide

(Sch 1000)

Cat. No.: HY-B0241

Ipratropium bromide (Sch 1000) is a **muscarinic receptor** antagonist, with binding IC_{50} values of 2.9 nM, 2 nM, and 1.7 nM for M1, M2, and M3 receptors, respectively. Ipratropium bromide can be used in the research for COPD (chronic obstructive pulmonary disease) and asthma.



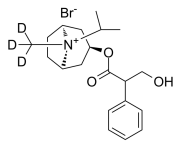
Purity: ≥98.0%
Clinical Data: Launched
Size: 10 mM × 1 mL, 100 mg

Ipratropium-d3 bromide

(Sch 1000-d3)

Cat. No.: HY-B0241S

Ipratropium-d3 bromide (Sch 1000-d3) is the deuterium labeled Ipratropium bromide. Ipratropium bromide (Sch 1000) is a **muscarinic receptor** antagonist, with binding IC_{50} values of 2.9 nM, 2 nM, and 1.7 nM for M1, M2, and M3 receptors, respectively.



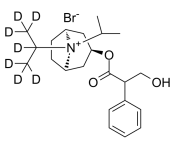
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Ipratropium-d7 bromide

(Sch 1000-d7 bromide)

Cat. No.: HY-B0241S1

Ipratropium-d7 (Sch 1000-d7) bromideis the deuterium labeled Ipratropium bromide. Ipratropium bromide (Sch 1000) is a **muscarinic receptor** antagonist, with binding IC_{50} values of 2.9 nM, 2 nM, and 1.7 nM for M1, M2, and M3 receptors, respectively.



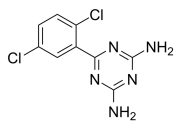
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Irsogladine

(Dicloguamine)

Cat. No.: HY-B0327

Irsogladine is a PDE4 inhibitor and muscarinic acetylcholine receptor binder.



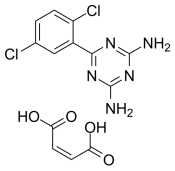
Purity: 99.80%
Clinical Data: Launched
Size: 10 mM × 1 mL, 500 mg

Irsogladine maleate

(Dicloguamine maleate; MN1695)

Cat. No.: HY-B0327A

Irsogladine is a PDE4 inhibitor and muscarinic acetylcholine receptor binder.

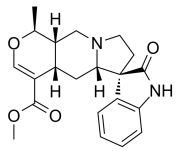


Purity: >98%
Clinical Data: Launched
Size: 1 mg, 5 mg

Isopteropodine

Cat. No.: HY-N4157

Isopteropodine is heteroyohimbine-type oxindole alkaloid components of Uncaria tomentosa (Willd.) DC. Isopteropodine acts as positive modulators of **muscarinic M1** and **5-HT2** receptors.

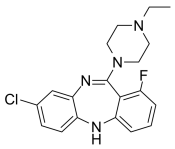


Purity: 98.66%
Clinical Data: No Development Reported
Size: 5 mg

JHU37152

Cat. No.: HY-131891

JHU37152 is a potent and brain-penetrant **DREADD** agonist, with **EC_{50}**s of 5nM and 0.5nM for **hM3Dq** and **hM4Di DREADDs** in HEK-293 cells, respectively.

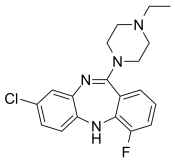


Purity: 98.75%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

JHU37160

Cat. No.: HY-131881

JHU37160 is a potent and brain-penetrant **DREADD** agonist, with **EC_{50}**s of 18.5nM and 0.2nM for **hM3Dq** and **hM4Di DREADDs** in HEK-293 cells, respectively.



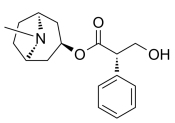
Purity: 99.83%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

L-Hyoscyamine

(Daturine)

Cat. No.: HY-N0471

L-Hyoscyamine (Daturine), a natural plant tropane alkaloid, is a potent and competitive **muscarinic receptor (MR)** antagonist. L-Hyoscyamine is a levo-isomer to Atropine (HY-B1205).



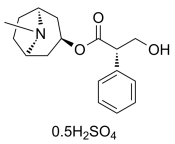
Purity: 99.80%
Clinical Data: Launched
Size: 10 mM × 1 mL, 100 mg

L-Hyoscyamine sulfate

(Daturine sulfate)

Cat. No.: HY-N0471A

L-Hyoscyamine sulfate (Daturine sulfate), a natural plant tropane alkaloid, is a potent and competitive **muscarinic receptor (MR)** antagonist. L-Hyoscyamine sulfate is a levo-isomer to Atropine (HY-B1205).



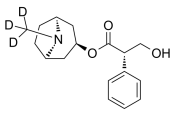
Purity: >98%
Clinical Data: Launched
Size: 5 mg, 10 mg, 20 mg

L-Hyoscyamine-d3

(Daturine-d3)

Cat. No.: HY-N0471S

L-Hyoscyamine-d3 (Daturine-d3) is the deuterium labeled L-Hyoscyamine. L-Hyoscyamine (Daturine), a natural plant tropane alkaloid, is a potent and competitive **muscarinic receptor (MR)** antagonist. L-Hyoscyamine is a levo-isomer to Atropine (HY-B1205).

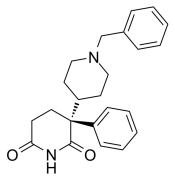


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Levetimide

Cat. No.: HY-105545A

Levetimide is a potent and stereoselective inhibitor of [^{3}H](+)pentazocine binding, with a K_i of 2.2 nM.

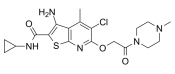


Purity: 99.18%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 10 mg, 50 mg

LY2119620

Cat. No.: HY-15885

LY2119620 is a high-affinity muscarinic **M_2/M_4 receptor** agonist.

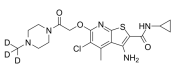


Purity: 99.74%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

LY2119620-d3

Cat. No.: HY-15885S

LY2119620-d3 is the deuterium labeled LY2119620. LY2119620 is a high-affinity muscarinic **M_2/M_4 receptor** agonist.

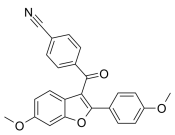


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

LY320135

Cat. No.: HY-W011040

LY320135 is a potent and selective antagonist of **CB1** receptor, with a K_i of 141 nM. LY320135 also binds to **5-HT$_2$** and **muscarinic receptors** with K_is of 6.4 μM and 2.1 μM, respectively. LY320135 exhibits neuroprotective effect.

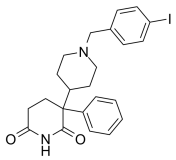


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

mAChR-IN-1

Cat. No.: HY-12426

mAChR-IN-1 is a potent **muscarinic cholinergic receptor (mAChR)** antagonist, with an **IC$_{50}$** of 17 nM.

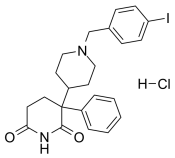


Purity: 99.78%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

mAChR-IN-1 hydrochloride

Cat. No.: HY-12426A

mAChR-IN-1 hydrochloride is a potent **muscarinic cholinergic receptor (mAChR)** antagonist, with an **IC$_{50}$** of 17 nM.

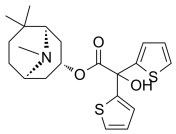


Purity: 99.94%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg

Mazaticol

Cat. No.: HY-105793

Mazaticol is an anticholinergic agent. Mazaticol blocks the muscarinic acetylcholine receptors and cholinergic nerve activity. Mazaticol is a potent 3H-QNB and 3H-PZ binding inhibitor, can bind to the M2 receptors with high affinity.

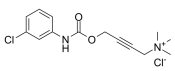


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

McN-A-343

Cat. No.: HY-107648

McN-A-343 is a selective **M1 muscarinic** agonist that stimulates muscarinic transmission in sympathetic ganglia. McN-A-343 reduces inflammation and oxidative stress in an experimental model of ulcerative colitis.



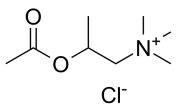
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Methacholine chloride

(Acetyl-β-methylcholine chloride)

Cat. No.: HY-A0083

Methacholine (Acetyl-β-methylcholine) chloride acts a **muscarinic M3 receptor** agonist in the parasympathetic nervous system. Methacholine chloride acts directly on acetylcholine receptors on smooth muscle causing contraction and airway narrowing.

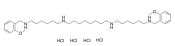


Purity: ≥98.0%
Clinical Data: Launched
Size: 10 mM × 1 mL, 100 mg

Methoctramine tetrahydrochloride

Cat. No.: HY-116294A

Methoctramine tetrahydrochloride is a potent and cardioselectivity antagonist of **M2 muscarinic receptor**. Methoctramine tetrahydrochloride can inhibit Muscarine-induced bradycardia in vivo.

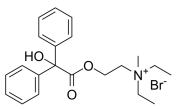


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Methylbenactyzium Bromide

Cat. No.: HY-B2070

Methylbenactyzium Bromide is a **muscarinic acetylcholine receptor** (**mAChR**) inhibitor.

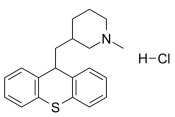


Purity: ≥98.0%
Clinical Data: Launched
Size: 10 mM × 1 mL, 50 mg, 100 mg, 200 mg

Metixene hydrochloride

Cat. No.: HY-120081B

Metixene hydrochloride is an anticholinergic antiparkinsonian agent, potently inhibits binding of quinuclidinyl benzilate (QNB) to the **muscarinic receptor** in rat brain cortical tissue, with an **IC$_{50}$** of 55 nM and a **K$_d$** of 15 nM.

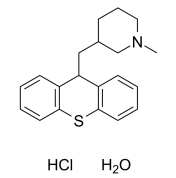


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Metixene hydrochloride hydrate

Cat. No.: HY-120081A

Metixene hydrochloride hydrate is an anticholinergic antiparkinsonian agent, potently inhibits binding of quinuclidinyl benzilate (QNB) to the **muscarinic receptor** in rat brain cortical tissue, with an **IC$_{50}$** of 55 nM and a **K$_d$** of 15 nM.

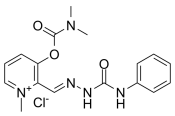


Purity: 99.97%
Clinical Data: Launched
Size: 10 mM × 1 mL, 10 mg

MHP 133

Cat. No.: HY-101653

MHP 133 is a drug with multiple CNS targets, and inhibits acetylcholinesterase (AChE) with K_i of 69 μM; also active against muscarinic M1 and M2 receptors, serotonin 5HT4 receptors, and imidazole I2 receptors.



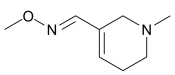
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Milameline

(CI-979; RU35926)

Cat. No.: HY-135460

Milameline is a **muscarinic receptor** agonist that improves cognition.

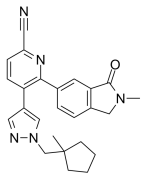


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

MK-6884

Cat. No.: HY-141899

MK-6884 is a **M4 muscarinic receptor** positive allosteric modulator (PAM) with a K_i value of 0.19 nM. MK-6884 can be used for the research of the neurodegenerative diseases. MK-6884 can be conveniently radiolabeled with carbon-11 and as a positron emission tomography (PET) imaging agent.



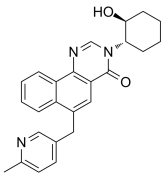
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

MK-7622

(M1 receptor modulator)

Cat. No.: HY-15618

MK-7622 (M1 receptor modulator) is a muscarinic **M1 receptor** positive allosteric modulator.



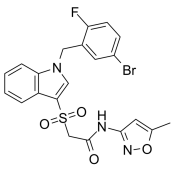
Purity: 98.98%
Clinical Data: Phase 2
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

ML169

(VU0405652)

Cat. No.: HY-120576

ML169 (VU0405652) is a potent, selective and brain penetrant positive allosteric modulator (PAM) of M_1 mAChR, with an EC_{50} of 1.38 μM. ML169 is a MLPCN probe and can be used for Alzheimer's disease.



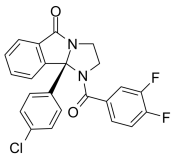
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

ML375

(VU0483253)

Cat. No.: HY-12567

ML375 (VU0483253) is a potent, highly selective, brain-penetrant and orally active **M5 mAChR** negative allosteric modulator (NAM) with IC_{50}s of 300 nM and 790 nM for human and rat M5, respectively. ML375 is inactive at human and rat M1-M4.

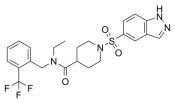


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

ML380

Cat. No.: HY-12439

ML380 is a potent, subtype-selective, and brain-penetrant positive allosteric modulator (PAM) of **M5 mAChR**, with EC_{50}s of 190 and 610 nM for **human** and **rat M5**, respectively. ML380 exhibits moderate selectivity versus the M1 and M3 mAChR subtypes.



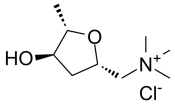
Purity: 99.91%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

Muscarine chloride

((+)-Muscarine chloride)

Cat. No.: HY-121404A

Muscarine ((+)-Muscarine) chloride is a toxin that can stimulate the parasympathetic nervous system. Muscarine is a prototype **muscarinic acetylcholine receptor** agonist.



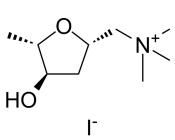
Purity: >98%
Clinical Data: No Development Reported
Size: 5 mg

Muscarine iodide

((+)-Muscarine iodide)

Cat. No.: HY-107654

Muscarine ((+)-Muscarine) iodide is a toxin that can stimulate the parasympathetic nervous system. Muscarine iodide is a prototype **muscarinic acetylcholine receptor** agonist.



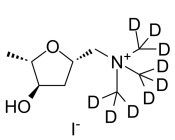
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Muscarine-d9 iodide

((+)-Muscarine-d9 iodide)

Cat. No.: HY-107654S

Muscarine-d9 iodide ((+)-Muscarine-d9 iodide) is the deuterium labeled Muscarine iodide. Muscarine ((+)-Muscarine) iodide is a toxin that can stimulate the parasympathetic nervous system. Muscarine iodide is a prototype **muscarinic acetylcholine receptor** agonist.

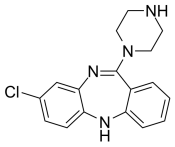


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

N-Desmethylclozapine

(Norclozapine; Desmethylclozapine; Normethylclozapine) Cat. No.: HY-G0021

N-Desmethylclozapine is a major active metabolite of the atypical antipsychotic drug Clozapine.

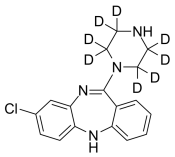


Purity: 99.66%
Clinical Data: Phase 1
Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg

N-Desmethylclozapine-d8 (Norclozapine-d8; Desmethylclozapine-d8; Normethylclozapine-d8)

Cat. No.: HY-G0021S

N-Desmethylclozapine-d8 (Norclozapine-d8) is the deuterium labeled N-Desmethylclozapine. N-Desmethylclozapine is a major active metabolite of the atypical antipsychotic drug Clozapine.

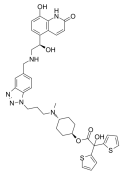


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Navafenterol

(AZD-8871; LAS191351) Cat. No.: HY-120802

Navafenterol (AZD-8871) is an inhaled dual-acting, potent, selective, and long-lasting **M3**-antagonist/**β2**-agonist (MABA) with long-lasting effects and favorable safety profile.

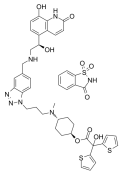


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Navafenterol saccharinate

(AZD-8871 saccharinate; LAS191351 saccharinate) Cat. No.: HY-120802A

Navafenterol (AZD-8871) saccharinate is an inhaled dual-acting, potent, selective, and long-lasting **M3**-antagonist/**β2**-agonist (MABA) with long-lasting effects and favorable safety profile.

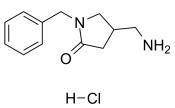


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Nebracetam hydrochloride

(WEB 1881 FU hydrochloride) Cat. No.: HY-113970A

Nebracetam hydrochloride, a nootropic **M_1-muscarinic** agonist, induces a rise of intracellular Ca^{2+} concentration. Nebracetam hydrochloride exhibits an **EC_{50}** of 1.59 mM for elevating $[Ca^{2+}]_i$.

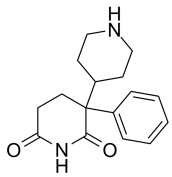


Purity: ≥95.0%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 2 mg, 5 mg, 10 mg

Nor-benzetimide

Cat. No.: HY-43711

Nor-benzetimide is a major metabolite of Benzetimide. Benzetimide is a **mAChR** antagonist with anticholinergic activity.

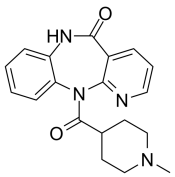


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Nuvenzepine

Cat. No.: HY-U00119

Nuvenzepine is an **mAChR** antagonist, has the potential for gastrospasm treatment.

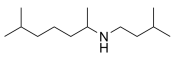


Purity: ≥99.0%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 1 mg, 5 mg, 10 mg, 20 mg

Octamylamine

Cat. No.: HY-W201842

Octamylamine is an anticholinergic and antispasmodic agent.

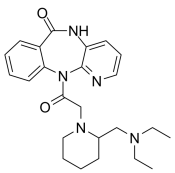


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Otenzepad

(AF-DX 116) Cat. No.: HY-101381

Otenzepad (AF-DX 116) is a selective and competitive **M2 muscarinic acetylcholine receptor** antagonist, with **IC_{50}** values of 640 nM and 386 nM for rabbit peripheral lung and rat heart, respectively.

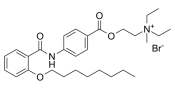


Purity: ≥98.0%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 1 mg, 5 mg

Otilonium bromide

(Octylonium bromide; SP63) Cat. No.: HY-B0499A

Octylonium bromide (SP63) is an antimuscarinic used as a spasmolytic agent. Target: mAChR Octylonium bromide (SP63) inhibited the generation of ACh-induced calcium signals in a dose dependent manner (IC50=880 nM) .

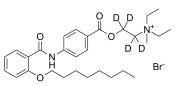


Purity: 99.48%
Clinical Data: Launched
Size: 10 mM × 1 mL, 10 mg, 50 mg

Otilonium-d4 bromide

(Octylonium-d4 bromide; SP63-d4 bromide) Cat. No.: HY-B0499AS1

Otilonium-d4 (bromide) is deuterium labeled Otilonium (bromide).

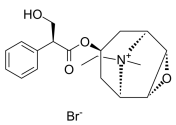


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Oxitropium Bromide

Cat. No.: HY-U00105

Oxitropium bromide is an **mAChR** antagonist used as an anticholinergic bronchodilator drug for the treatment of asthma and chronic obstructive pulmonary disease.

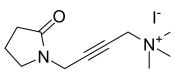


Purity: >98%
Clinical Data: Launched
Size: 1 mg, 5 mg

Oxotremorine M iodide

Cat. No.: HY-101372A

Oxotremorine M iodide is a potent and non-selective **muscarinic acetylcholine receptor (mAChR)** agonist. Oxotremorine M iodide potentiates NMDA receptors by muscarinic receptor dependent and independent mechanisms.

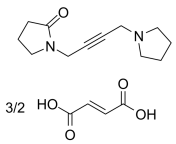


Purity: ≥98.0%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 10 mg, 50 mg, 100 mg

Oxotremorine sesquifumarate

Cat. No.: HY-101239

Oxotremorine sesquifumarate is a **mAChR** agonist that mainly activates M2 receptors. Oxotremorine sesquifumarate can be used for neurological research.

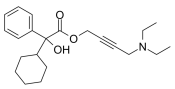


Purity: ≥98.0%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg, 25 mg

Oxybutynin

Cat. No.: HY-B0267

Oxybutynin is an anticholinergic agent, which inhibits vascular K_v channels in a concentration-dependent manner, with an IC_{50} of 11.51 μM.

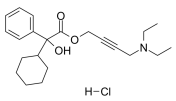


Purity: 99.55%
Clinical Data: Launched
Size: 10 mM × 1 mL, 100 mg, 500 mg

Oxybutynin chloride

Cat. No.: HY-B0267A

Oxybutynin chloride is an anticholinergic agent, which inhibits vascular K_v channels in a concentration-dependent manner, with an IC_{50} of 11.51 μM.

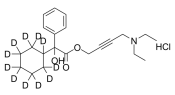


Purity: 98.31%
Clinical Data: Launched
Size: 10 mM × 1 mL, 100 mg, 500 mg

Oxybutynin-d11 chloride

Cat. No.: HY-B0267AS

Oxybutynin-d11 chloride is the deuterium labeled Oxybutynin chloride. Oxybutynin chloride is an anticholinergic agent, which inhibits vascular K_v channels in a concentration-dependent manner, with an IC_{50} of 11.51 μM.

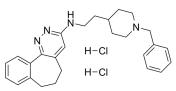


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg, 10 mg, 25 mg

PCS1055 dihydrochloride

Cat. No.: HY-122203

PCS1055 dihydrochloride is a potent, selective and competitive **muscarinic M4 receptor** antagonist with an **IC_{50}** of 18.1 nM and a **K_d** of 5.72 nM. PCS1055 dihydrochloride inhibits radioligand [^{3}H]-NMS binding to the **M4 receptor** with a **K_i** of 6.5 nM.

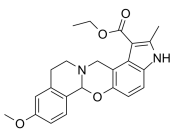


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

PD 102807

Cat. No.: HY-107646

PD 102807 is a **M4 muscarinic receptor** antagonist with an **IC_{50}** of 90.7 nM. PD 102807 inhibits M1, M2, M3, M5 muscarinic receptor with IC_{50}s of 6558.7, 3440.7, 950.0, and 7411.7 nM, respectively. Antidyskinetic effect.

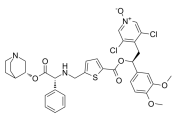


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

PDE4-IN-4

Cat. No.: HY-115871

PDE4-IN-4 is a dual M3 (**pIC_{50}** = 10.2) antagonist-PDE4 (**pIC_{50}** = 8.8) inhibitor for the inhaled treatment of pulmonary diseases.

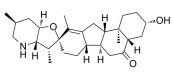


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Peimisine

(Ebeiensine) Cat. No.: HY-N0214

Peimisine (Ebeiensine) non-competitively antagonizes tracheal smooth muscle **muscarinic M receptor** and inhibits smooth muscle contraction caused by Ach.

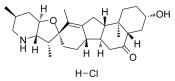


Purity: 99.51%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg

Peimisine hydrochloride

(Ebeiensine hydrochloride) Cat. No.: HY-N0214A

Peimisine (Ebeiensine) hydrochloride non-competitively antagonizes tracheal smooth muscle **muscarinic M receptor** and inhibits smooth muscle contraction caused by Ach.

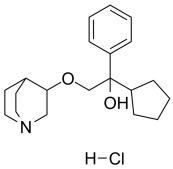


Purity: >98%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg, 25 mg

Penehyclidine hydrochloride

(Penequinine hydrochloride) Cat. No.: HY-137976

Penehyclidine (Penequinine) hydrochloride, a **anticholinergic** drug, is a selective antagonist of **M1** and **M3** receptors. Penehyclidine hydrochloride activates **NF-kβ** in lung tissue and inhibits the release of inflammatory factors.

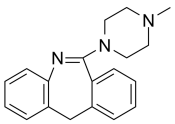


Purity: ≥99.0%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Perlapine

(MP-11) Cat. No.: HY-110239

Perlapine is a potent **muscarinic DREADD** (Designer Receptors Exclusively Activated by Designer Drugs) agonist Perlapine exhibits >10000-fold selectivity for hM_3D_q over hM_3 receptors.

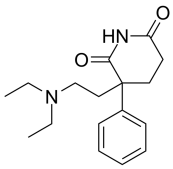


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Phenglutarimid

(Ciba 10870; Phenglutarimide) Cat. No.: HY-U00001

Phenglutarimid is an anticholinergic used as an antiparkinsonian agent.

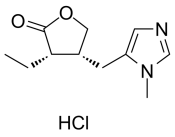


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Pilocarpine Hydrochloride

Cat. No.: HY-B0726

Pilocarpine Hydrochloride is a potent M3-type muscarinic acetylcholine receptor (**M3 muscarinic receptor**) agonist.

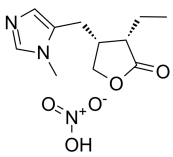


Purity: 99.94%
Clinical Data: Launched
Size: 100 mg, 500 mg

Pilocarpine nitrate

Cat. No.: HY-B1006

Pilocarpine nitrate is a potent M3-type muscarinic acetylcholine receptor (**M3 muscarinic receptor**) agonist.

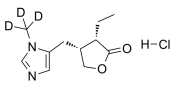


Purity: >98%
Clinical Data: Launched
Size: 1 mg, 5 mg

Pilocarpine-d3 hydrochloride

Cat. No.: HY-B0726S

Pilocarpine-d3 (hydrochloride) is deuterium labeled Pilocarpine (Hydrochloride). Pilocarpine Hydrochloride is a potent M3-type muscarinic acetylcholine receptor (M3 muscarinic receptor) agonist.

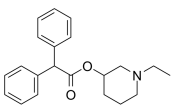


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Piperidolate

Cat. No.: HY-B0962A

Piperidolate is an antimuscarinic, inhibits intestinal cramp induced by acetylcholine (rats and dogs).

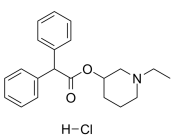


Purity: 99.34%
Clinical Data: Launched
Size: 10 mM × 1 mL, 100 mg, 200 mg

Piperidolate hydrochloride

Cat. No.: HY-B0962

Piperidolate hydrochloride is an antimuscarinic, inhibits intestinal cramp induced by acetylcholine (rats and dogs).



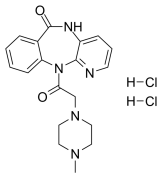
Purity: 99.90%
Clinical Data: Launched
Size: 10 mM × 1 mL, 100 mg, 200 mg

Pirenzepine dihydrochloride

(LS519)

Cat. No.: HY-17037

Pirenzepine dihydrochloride (LS519) is a selective **M1** muscarinic receptor antagonist.

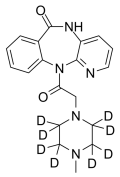


Purity: 99.93%
Clinical Data: Launched
Size: 10 mM × 1 mL, 100 mg, 500 mg

Pirenzepine-d8

Cat. No.: HY-17037S

Pirenzepine-d8 (LS519-d8) is the deuterium labeled Pirenzepine dihydrochloride. Pirenzepine dihydrochloride (LS519) is a selective **M1** muscarinic receptor antagonist.



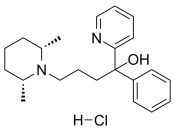
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Pirmenol hydrochloride

(Cl-845; (±)-Pirmenol hydrochlorid)

Cat. No.: HY-100795A

Pirmenol hydrochloride inhibits $I_{K,ACh}$ by blocking **muscarinic receptors**. The IC_{50} of Pirmenol for inhibition of Carbachol-induced $I_{K,ACh}$ is 0.1 μM.

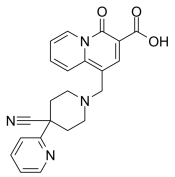


Purity: 99.34%
Clinical Data: Launched
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

PQCA

Cat. No.: HY-118342

PQCA is a highly selective and potent **muscarinic M1 receptor** positive allosteric modulator. PQCA has an EC_{50} value of 49 nM and 135 nM on **rhesus** and **human M1 receptor**, respectively. PQCA is inactive for other muscarinic receptors.

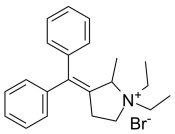


Purity: 99.78%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

Prifinium bromide

Cat. No.: HY-122086

Prifinium bromide is antimuscarinic agent with antispasmodic, antiemetic effect.

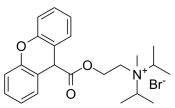


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Propantheline bromide

Cat. No.: HY-B1188

Propantheline bromide is an antimuscarinic agent, used for the treatment of hyperhidrosis, cramps or spasms of the stomach, intestines or bladder, and enuresis.

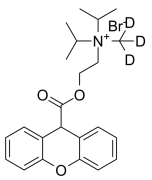


Purity: ≥95.0%
Clinical Data: Launched
Size: 10 mM × 1 mL, 100 mg

Propantheline-d3 bromide

Cat. No.: HY-B1188S

Propantheline-d3 bromide is the deuterium labeled Propantheline bromide. Propantheline bromide is an antimuscarinic agent, used for the treatment of hyperhidrosis, cramps or spasms of the stomach, intestines or bladder, and enuresis.

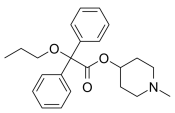


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Propiverine

Cat. No.: HY-116408

Propiverine is a potent antimuscarinic agent. Propiverine inhibits cellular calcium influx, thereby diminishing muscle spasm. Propiverine has neurotropic and musculotropic effects on the urinary bladder smooth muscle. Propiverine can used for overactive bladder (OAB) research.

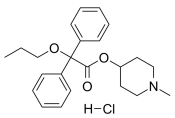


Purity: >98%
Clinical Data: Launched
Size: 1 mg, 5 mg

Propiverine hydrochloride

Cat. No.: HY-116408A

Propiverine hydrochloride is a bladder spasmolytic with calcium antagonistic and anticholinergic properties. Propiverine hydrochloride can be used for the research of overactive blaqdder and urinary incontinence.

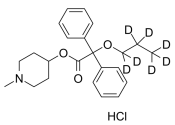


Purity: 98.93%
Clinical Data: Launched
Size: 10 mM × 1 mL, 25 mg

Propiverine-d7 hydrochloride

Cat. No.: HY-116408AS

Propiverine-d7 hydrochloride is the deuterium labeled Propiverine hydrochloride. Propiverine hydrochloride is a bladder spasmolytic with calcium antagonistic and anticholinergic properties.

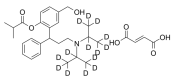


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

rac Fesoterodine-d14 fumarate

Cat. No.: HY-70053S

(Rac)-Fesoterodine-d14 fumarate is a labelled racemic Fesoterodine. Fesoterodine is an orally active, nonsubtype selective, competitive **muscarinic receptor (mAChR)** antagonist with pK_i values of 8.0, 7.7, 7.4, 7.3, 7.5 for M1, M2, M3, M4, M5 receptors, respectively.

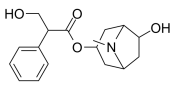


Purity: >98%
Clinical Data:
Size: 1 mg, 10 mg

Racanisodamine

Cat. No.: HY-N2064

Racanisodamine is one of the racemic isomers of anisodamine, resembles anisodamine in pharmacological effect. Racanisodamine is a non-selective **muscarinic** antagonist, used as a component of eye drops for myopic control.



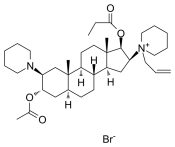
Purity: 98.67%
Clinical Data: Launched
Size: 10 mM × 1 mL, 100 mg, 500 mg

Rapacuronium bromide

(Org 9487)

Cat. No.: HY-16423

Rapacuronium bromide (Org 9487), a non-depolarizing neuromuscular blocker, is an allosteric modulator of **muscarinic acetylcholine receptor (mAChR)**.

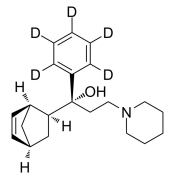


Purity: ≥98.0%
Clinical Data: Launched
Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

rel-Biperiden EP impurity A-d5

Cat. No.: HY-13204S2

rel-Biperiden EP impurity A-d5 is deuterium labeled Biperiden (hydrochloride).

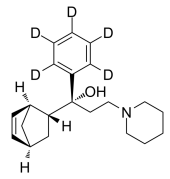


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

rel-Biperiden EP impurity B-d5

Cat. No.: HY-13204S3

rel-Biperiden EP impurity B-d5 is deuterium labeled Biperiden (hydrochloride).

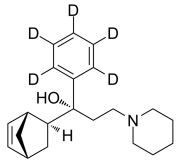


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

rel-Biperiden-d5

Cat. No.: HY-13204S1

rel-Biperiden-d5 is deuterium labeled Biperiden (hydrochloride).



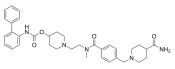
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Revefenacin

(TD-4208; GSK1160724)

Cat. No.: HY-15851

Revefenacin (TD-4208; GSK1160724) is a potent **mAChR** antagonist; has a high affinity on M3 receptor with a K_i of 0.18 nM.



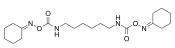
Purity: 99.78%
Clinical Data: Launched
Size: 2 mg, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

RHC 80267

(U-57908)

Cat. No.: HY-107416

RHC 80267 (U-57908) is a potent and selective inhibitor of **diacylglycerol lipase (DAGL)** (with IC_{50} of 4 μM in canine platelets). RHC-80267 inhibits **cholinesterase** activity with an IC_{50} of 4 μM, thereby enhancing the relaxation evoked by **acetylcholine**.

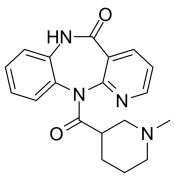


Purity: 99.51%
Clinical Data: No Development Reported
Size: 10 mg, 25 mg, 50 mg, 100 mg

Rispenzepine

Cat. No.: HY-U00030

Rispenzepine is a novel antimuscarinic compound with a preferential action at M_1, and M_3 **receptor** subtypes.



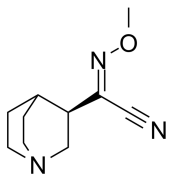
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Sabcomeline

(SB-202026; Memric)

Cat. No.: HY-106432

Sabcomeline (SB-202026) is a potent and functionally selective **muscarinic M1 receptor** partial agonist that improve cognition. Sabcomeline can be used for Alzheimer's disease research.

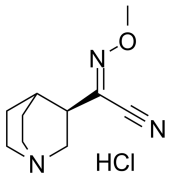


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Sabcomeline hydrochloride

(SB-202026 hydrochloride; Memric hydrochloride) Cat. No.: HY-106432A

Sabcomeline (SB-202026) hydrochloride is a potent and functionally selective **muscarinic M1 receptor** partial agonist that improve cognition. Sabcomeline hydrochloride can be used for Alzheimer's disease research.

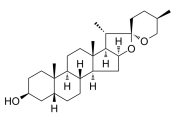


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Smilagenin

Cat. No.: HY-106353

Smilagenin (SMI) is a small-molecule steroidal sapogenin from Rhizoma anemarrhenae and Radix asparagi widely used in traditional Chinese medicine for treating chronic neurodegeneration diseases.

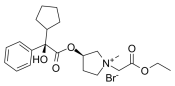


Purity: ≥98.0%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

Sofpironium bromide

(BBI 4000) Cat. No.: HY-109013

Sofpironium bromide (BBI 4000) is an anticholinergic agent used in the study of primary axillary hyperhidrosis (PAH). Sofpironium bromide reduces sweating by inhibiting **M3 muscarinic receptors** in eccrine glands at the application site.

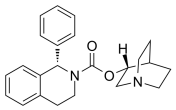


Purity: 98.18%
Clinical Data: Launched
Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

Solifenacin

(YM905 free base) Cat. No.: HY-A0034

Solifenacin (YM905 free base) is a novel **muscarinic receptor** antagonist with **pK$_i$**s of 7.6, 6.9 and 8.0 for **M$_1$**, **M$_2$** and **M$_3$** receptors, respectively.

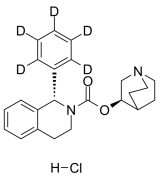


Purity: 99.77%
Clinical Data: Launched
Size: 10 mM × 1 mL, 10 mg, 25 mg, 50 mg, 100 mg

Solifenacin D5 hydrochloride

Cat. No.: HY-135329

Solifenacin D5 hydrochloride is a deuterium labeled Solifenacin hydrochloride. Solifenacin hydrochloride is a **muscarinic receptor** antagonist with **pK$_i$**s of 7.6, 6.9 and 8.0 for **M$_1$**, **M$_2$** and **M$_3$** receptors, respectively.

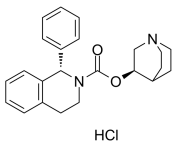


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Solifenacin hydrochloride

(YM905 hydrochloride) Cat. No.: HY-I0230

Solifenacin hydrochloride (YM905 hydrochloride) is a **muscarinic receptor** antagonist, with **pK$_i$**s of 7.6, 6.9 and 8.0 for **M$_1$**, **M$_2$** and **M$_3$** receptors, respectively.

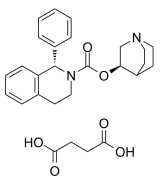


Purity: 99.29%
Clinical Data: Launched
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

Solifenacin Succinate

(YM905) Cat. No.: HY-A0002

Solifenacin Succinate (YM905) is a novel **muscarinic receptor** antagonist with **pK$_i$**s of 7.6, 6.9 and 8.0 for **M$_1$**, **M$_2$** and **M$_3$** receptors, respectively.

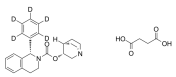


Purity: 99.99%
Clinical Data: Launched
Size: 10 mM × 1 mL, 10 mg, 50 mg, 100 mg

Solifenacin-d5 succinate

(YM905-d5) Cat. No.: HY-A0002S

Solifenacin-d5 (succinate) is deuterium labeled Solifenacin (Succinate). Solifenacin Succinate (YM905) is a novel muscarinic receptor antagonist with pKis of 7.6, 6.9 and 8.0 for M1, M2 and M3 receptors, respectively.

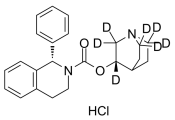


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Solifenacin-d7 hydrochloride

Cat. No.: HY-I0230S

Solifenacin-d7 hydrochloride is the deuterium labeled Solifenacin hydrochloride. Solifenacin hydrochloride (YM905 hydrochloride) is a **muscarinic receptor** antagonist, with **pK$_i$**s of 7.6, 6.9 and 8.0 for **M$_1$**, **M$_2$** and **M$_3$** receptors, respectively.

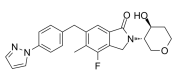


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

TAK-071

Cat. No.: HY-122190

TAK-071 is a novel, potent and highly selective **muscarinic acetylcholine receptor 1 (M1R)** positive allosteric modulator. **EC$_{50}$** of TAK-071 M1R agonist activities is 520 nM.

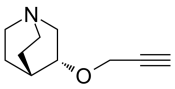


Purity: 99.40%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 10 mg, 50 mg, 100 mg

Talsaclidine

Cat. No.: HY-128855

Talsaclidine is a muscarinic agonist with preferential neuron-stimulating properties. Talsaclidine is a full agonist at the **M1** subtype, and as a partial agonist at the **M2** and M3 subtypes.



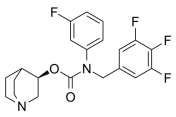
Purity: ≥98.0%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 1 mg, 5 mg

Tarafenacin

(SVT-40776)

Cat. No.: HY-14825

Tarafenacin(SVT-40776) is a highly selective M3 muscarinic receptor antagonist (Ki= 0.19 nM), ~200 fold selectivity over M2 receptor. IC50 value: 0.19 nM (Ki) Target: M3 muscarinic receptor in vitro: SVT-40776 is highly selective for M(3) over M(2) receptors (Ki = 0.19 nmol.



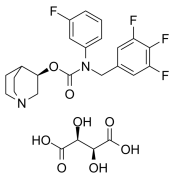
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Tarafenacin D-tartrate

(SVT-40776 D-tartrate)

Cat. No.: HY-14825A

Tarafenacin D-tartrate (SVT-40776 D-tartrate) is a highly selective M3 muscarinic receptor antagonist (Ki= 0.19 nM), ~200 fold selectivity over M2 receptor.

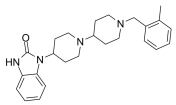


Purity: 99.87%
Clinical Data: Phase 2
Size: 10 mM × 1 mL, 10 mg, 50 mg, 100 mg

TBPB

Cat. No.: HY-14562

TBPB is an allosteric M1 mAChR agonist(EC50=289 nM) that regulates amyloid processing and produces antipsychotic-like activity in rats.

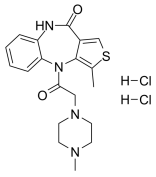


Purity: 99.68%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 10 mg, 50 mg, 100 mg, 200 mg

Telenzepine dihydrochloride

Cat. No.: HY-B1789A

Telenzepine dihydrochloride is a selective and orally active **muscarinic M1 receptor** antagonist with a K_i of 0.94 nM. Telenzepine dihydrochloride inhibits gastric acid secretion and has antiulcer effects.



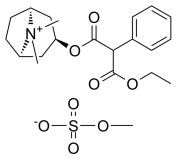
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Tematropium

(CDDD3602; HGP6)

Cat. No.: HY-U00203

Tematropium (CDDD3602) is a soft anticholinergics.

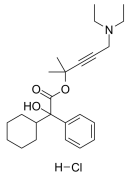


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Temiverine hydrochloride

Cat. No.: HY-U00055

Temiverine hydrochloride is a synthesized drug that is expected to have anticholinergic action.

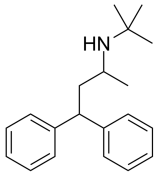


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Terodiline

Cat. No.: HY-16489

Terodiline is an **M1**-selective **muscarinic receptor (mAChR)** antagonist with K_bs of 15, 160, 280, and 198 nM in rabbit vas deferens (M1), atria (M2), bladder (M3) and ileal muscle (M3), respectively. Terodiline also is a **Ca^{2+}** blocker.

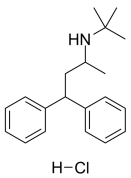


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Terodiline hydrochloride

Cat. No.: HY-16489A

Terodiline hydrochloride is an **M1**-selective **muscarinic receptor (mAChR)** antagonist with K_bs of 15, 160, 280, and 198 nM in rabbit vas deferens (M1), atria (M2), bladder (M3) and ileal muscle (M3), respectively. Terodiline hydrochloride also is a **Ca^{2+}** blocker.

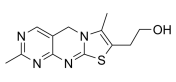


Purity: 99.78%
Clinical Data: No Development Reported
Size: 5 mg

Thiochrome

Cat. No.: HY-N7247

Thiochrome, a natural oxidation product and metabolite of thiamine, is a selective **M4 muscarinic receptor of acetylcholine (ACh)** affinity enhancer. Thiochrome has neutral cooperativity with ACh at M1 to M3 receptors.

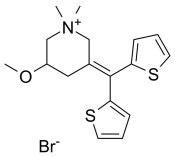


Purity: ≥99.0%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg

Timepidium bromide

(Sesden; SA504) Cat. No.: HY-U00184

Timepidium bromide (Sesden; SA504) is an anticholinergic agent.

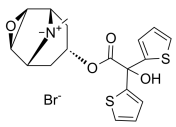


Purity: >98%
Clinical Data: Launched
Size: 1 mg, 5 mg

Tiotropium Bromide

(BA679 BR) Cat. No.: HY-17360

Tiotropium Bromide (BA679 BR) is a muscarinic acetylcholine receptor (mAChR) antagonist that blocks the binding of the acetylcholine ligand and subsequent opening of the ligand-gated ion channel.

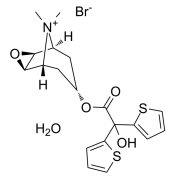


Purity: 99.61%
Clinical Data: Launched
Size: 10 mM × 1 mL, 10 mg, 50 mg, 100 mg, 500 mg

Tiotropium bromide hydrate

(BA-679 BR (hydrate)) Cat. No.: HY-B0460

Tiotropium Bromide hydrate is an anticholinergic and bronchodilator and a muscarinic receptor antagonist.

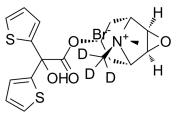


Purity: >98%
Clinical Data: Launched
Size: 1 mg, 5 mg

Tiotropium-d3 bromide

(BA679 BR-d3) Cat. No.: HY-17360S

Tiotropium-d3 (bromide) (BA679 BR-d3) is the deuterium labeled Tiotropium (Bromide). Tiotropium Bromide (BA679 BR) is a muscarinic acetylcholine receptor (mAChR) antagonist that blocks the binding of the acetylcholine ligand and subsequent opening of the ligand-gated ion channel.

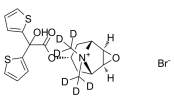


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg, 10 mg

Tiotropium-d6 bromide

(BA679 BR-d6) Cat. No.: HY-17360S1

Tiotropium-d6 (bromide) is deuterium labeled Tiotropium (Bromide). Tiotropium Bromide (BA679 BR) is a muscarinic acetylcholine receptor (mAChR) antagonist that blocks the binding of the acetylcholine ligand and subsequent opening of the ligand-gated ion channel.

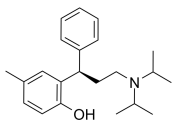


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Tolterodine ((R)-(+)-Tolterodine; (+)-Tolterodine; (R)-Tolterodine; PNU-200583)

Cat. No.: HY-A0024

Tolterodine(PNU-200583) is a potent muscarinic receptor antagonists that show selectivity for the urinary bladder over salivary glands in vivo.

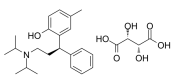


Purity: 99.55%
Clinical Data: Launched
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

Tolterodine tartrate

(Kabi-2234; PNU-200583E) Cat. No.: HY-90010

Tolterodine Tartrate (Kabi-2234; PNU-200583E) is a potent **muscarinic receptor** antagonist and shows selectivity for the urinary bladder over salivary glands in vivo.

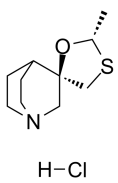


Purity: 99.88%
Clinical Data: Launched
Size: 10 mM × 1 mL, 10 mg, 25 mg, 50 mg, 100 mg, 250 mg

trans-Cevimeline hydrochloride

(AF102A hydrochloride) Cat. No.: HY-116459

Trans-Cevimeline (AF102A) (hydrochloride), as a trans-isomer of AF102B, is a **M1** selective cholinergic agonist. Trans-Cevimeline (AF102A) (hydrochloride) can be used for the research of Alzheimer's disease.

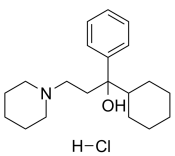


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Trihexyphenidyl hydrochloride

Cat. No.: HY-B1277

Trihexyphenidyl hydrochloride is an antiparkinsonian agent of the antimuscarinic class, binds to the M1 muscarinic receptor.

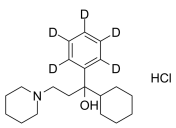


Purity: 99.80%
Clinical Data: Launched
Size: 10 mM × 1 mL, 500 mg

Trihexyphenidyl-d5 hydrochloride

Cat. No.: HY-B1277S

Trihexyphenidyl-d5 (hydrochloride) is deuterium labeled Trihexyphenidyl (hydrochloride).



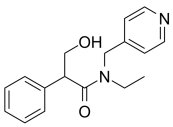
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Tropicamide

(Ro 1-7683)

Cat. No.: HY-B0321

Tropicamide (Ro 1-7683) is a selective **M4 muscarinic acetylcholine receptor** antagonist. Tropicamide produces short acting mydriasis (dilation of the pupil) and cycloplegia when applied as eye drops.

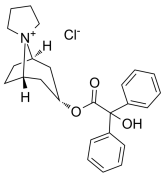


Purity: 99.30%
Clinical Data: Launched
Size: 10 mM × 1 mL, 100 mg, 500 mg

Trospium chloride

Cat. No.: HY-B0461

Trospium chloride is an orally active, specific and competitive antagonist of **muscarinic cholinergic receptors (mAChRs)**, with antimuscarinic activity.

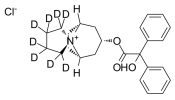


Purity: 99.32%
Clinical Data: Launched
Size: 10 mM × 1 mL, 100 mg

Trospium-d8 chloride

Cat. No.: HY-B0461S

Trospium-d8 chloride is the deuterium labeled Trospium chloride. Trospium chloride is an orally active, specific and competitive antagonist of **muscarinic cholinergic receptors (mAChRs)**, with antimuscarinic activity.



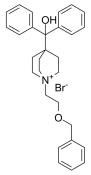
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Umeclidinium bromide

(GSK573719A)

Cat. No.: HY-12100

Umeclidinium bromide is a novel **mAChR** antagonist. The affinity (K_i) of Umeclidinium bromide for the cloned human M1-M5 mAChRs ranges from 0.05 to 0.16 nM.



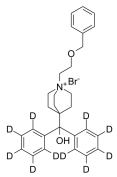
Purity: 99.72%
Clinical Data: Launched
Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg

Umeclidinium-d10 bromide

(GSK573719A-d10)

Cat. No.: HY-12100S1

Umeclidinium-d10 bromide (GSK573719A-d10) is the deuterium labeled Umeclidinium bromide. Umeclidinium bromide is a novel **mAChR** antagonist. The affinity (K_i) of Umeclidinium bromide for the cloned human M1-M5 mAChRs ranges from 0.05 to 0.16 nM.



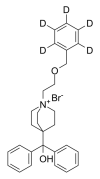
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Umeclidinium-d5 bromide

(GSK573719A-d5)

Cat. No.: HY-12100S

Umeclidinium-d5 bromide (GSK573719A-d5) is the deuterium labeled Umeclidinium bromide. Umeclidinium bromide is a novel **mAChR** antagonist. The affinity (K_i) of Umeclidinium bromide for the cloned human M1-M5 mAChRs ranges from 0.05 to 0.16 nM.



Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Velufenacin

Cat. No.: HY-109196

Velufenacin is a **muscarinic receptor** antagonist.
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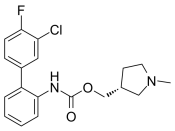


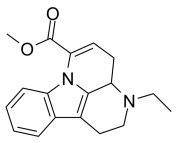
Purity: 99.46%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

Vinconate

(Chanodesethylapovincamine)

Cat. No.: HY-U00316

Vinconate is an indolonaphthyridine derivative and can stimulate the **muscariic acetylcholine receptor**.

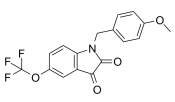


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

VU 0238429

Cat. No.: HY-12157

VU 0238429 is positive allosteric modulator of muscarinic acetylcholine receptor subtype 5 **(mAChR5 or M5)**, with an EC_{50} of 1.16 μM.



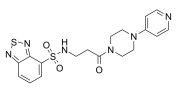
Purity: 99.99%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

VU 0255035

(VU 255035)

Cat. No.: HY-108234

VU 0255035 is a highly selective, competitive and brain penetrant **muscarinic M1 receptor** antagonist with an IC_{50} of 130 nM. VU 0255035 reduces pilocarpine-induced seizures in mice. VU0255035 is used to examine the role of the M1 receptor in diverse situations.

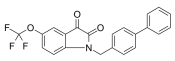


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

VU 0365114

Cat. No.: HY-107651

VU 0365114 is a **mAChR M_5** positive allosteric modulator, with an **EC_{50}** of 2.7 μM.

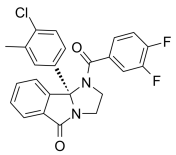


Purity: 99.51%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

VU 6008667

Cat. No.: HY-101281

VU 6008667 is a selective negative allosteric modulator of **M5 NAM** with **IC_{50}s** of 1.2 μM and 1.6 μM for human M5 and rat M5, respectively. High CNS penetration.

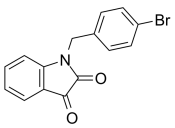


Purity: 99.05%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

VU0119498

Cat. No.: HY-114933

VU0119498 is a pan G_q **mAChR M1, M3, M5** positive allosteric modulator (PAM), with **EC_{50}s** of 6.04, 6.38, and 4.08 μM, respectively. VU0119498 has antidiabetic activity.

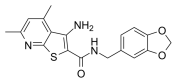


Purity: 99.52%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 10 mg, 25 mg, 50 mg, 100 mg

VU0152099

Cat. No.: HY-119226

VU0152099 is a potent, selective and brain-penetrant **mAChR M4 positive allosteric modulator** with an **EC_{50}** of 0.4 μM for rat M4 receptor. VU0152099 is inactive for other mAChR subtypes or other GPCRs.



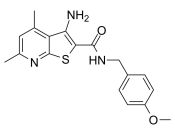
Purity: 98.35%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

VU0152100

(VU152100)

Cat. No.: HY-13340

VU0152100 is a potent and selective allosteric potentiator of M4 mAChR with an EC50 of 380 ± 93 nM.

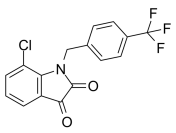


Purity: 99.88%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 10 mg, 50 mg

VU0238441

Cat. No.: HY-12158

VU0238441 is a pan **muscarinic acetylcholine receptor (mAChR)** positive allosteric modulator (PAM) with **EC_{50}s** of 3.2 μM, 2.8 μM, 2.2 μM, 2.1 μM, >10 μM for M1, M2, M3, M5 and M4, respectively.



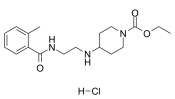
Purity: ≥97.0%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

VU0357017 hydrochloride

(CID-25010775)

Cat. No.: HY-19752A

VU0357017 hydrochloride (CID-25010775) is a potent, selective and brain-penetrant allosteric agonist of **M_1 muscarinic acetylcholine receptor**, with an **EC_{50}** of 477 nM.

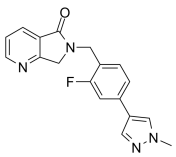


Purity: 99.28%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

VU0453595

Cat. No.: HY-120023

VU0453595 is a highly selective, systemically active **M_1 positive allosteric modulator** (**PAM, EC_{50}**=2140nM) for the research of schizophrenia.

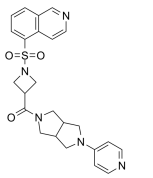


Purity: 99.42%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

VU0455691

Cat. No.: HY-116569

VU0455691 is a potent, selective orthosteric **M_1 mAChR** antagonist (pIC_{50}=6.64; IC_{50}=0.23 μM for hM1).

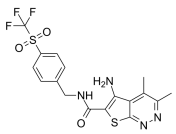


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

VU0467154

Cat. No.: HY-112209

VU0467154 is a positive allosteric modulator of the **M4 muscarinic acetylcholine receptor (mAChR)**, potentiating the response to ACh with **pEC_{50}s** of 7.75, 6.2 and 6 for rat, human and cynomolgus monkey M4 receptor, respectively.



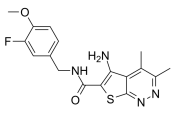
Purity: 99.59%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

VU0467485

(AZ13713945)

Cat. No.: HY-120184

VU0467485 (AZ13713945) is a potent, selective, and orally bioavailable **muscarinic acetylcholine receptor 4 (M4)** positive allosteric modulator (PAM).

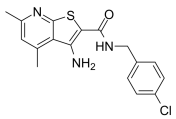


Purity: 99.37%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg

VU10010

Cat. No.: HY-14563

VU10010 is a potent, highly selective and allosteric **M_4 mAChR** potentiator with an **EC_{50}** of 400 nM. VU10010 binds to an allosteric site on M_4 mAChR and increases affinity for acetylcholine and coupling to G proteins.

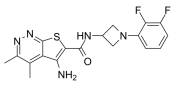


Purity: 98.70%
Clinical Data: No Development Reported
Size: 10 mg, 25 mg, 50 mg

VU6000918

Cat. No.: HY-139044

VU6000918 is a **muscarinic acetylcholine (M4)** positive allosteric modulator, with an **EC_{50}** of 19 nM for hM4.



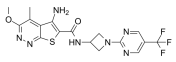
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

VU6005806

(AZN-00016130)

Cat. No.: HY-128584

VU6005806 (AZN-00016130) is a potent muscarnic acethylcholine receptor subtype 4 (M_4) positive allosteric modulator (PAM), with **EC_{50}**s of 94 nM, 28 nM, 87 nM and 68 nM for human, rat, dog and cyno M_4, respectively. Used in the research of neuropsychiatric disorders.



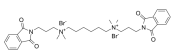
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

W-84 dibromide

(HDMPPA)

Cat. No.: HY-100979

W-84 (dibromide) is a potent allosteric modulator of **M2-cholinoceptors**, which retards [^{3}H]N-methylscopolamine dissociation. W-84 dibromide can stabilize cholinergic antagonist-receptor complexes.

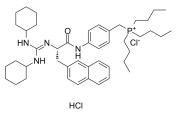


Purity: 98.04%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

WIN 64338 hydrochloride

Cat. No.: HY-101368A

WIN 64338 hydrochloride is a potent, selective, nonpeptide competitive antagonist of **bradykinin B2 receptor**. WIN 64338 hydrochloride inhibits [^{3}H]-Bradykinin binding to the bradykinin B2 receptor on human IMR-90 cells with a **K_i** of 64 nM.



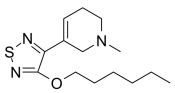
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Xanomeline

(LY-246708)

Cat. No.: HY-105182

Xanomeline, as an effective and selective muscarinic type 1 and type 4 (**M1/M4**) receptor agonist, increases neuronal excitability. Xanomeline can be used for the research of neurological disorders, such as schizophrenia.



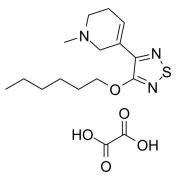
Purity: 99.32%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

Xanomeline oxalate

(LY246708 oxalate)

Cat. No.: HY-13410

Xanomeline oxalate (LY246708 oxalate) is a potent and selective **muscarinic receptor** agonist (SMRA) and stimulates phosphoinositide hydrolysis in vivo. Xanomeline oxalate can be used for the research of Alzheimer's disease.



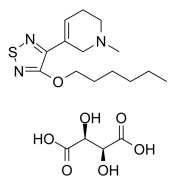
Purity: 99.89%
Clinical Data: Phase 2
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg

Xanomeline tartrate

(LY 246708 tartrate)

Cat. No.: HY-105182A

Xanomeline (LY 246708) is the potent agonist of muscarinic **M1/M4** receptor with antipsychotic-like activity. Xanomeline (LY 246708) increases neuronal excitability. Xanomeline (LY 246708) can be used for the research of schizophrenia.

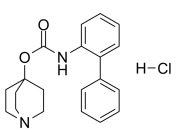


Purity: 99.92%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

YM-46303

Cat. No.: HY-U00104

YM-46303 is an **mAChR** antagonist which exhibits the highest affinities for M1 and M3 receptors, and selectivity for M3 over M2 receptor.

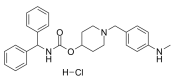


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

YM-58790

Cat. No.: HY-101679

YM-58790 is a potent antagonist of **M3 muscarinic receptor**, with K_i of 15 nM.



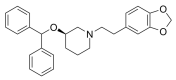
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Zamifenacin

(UK-76654)

Cat. No.: HY-123337

Zamifenacin (UK-76654) is a potent gut-selective **muscarinic M3 receptor** antagonist. Zamifenacin significantly reduces colonic motility in irritable bowel syndrome.



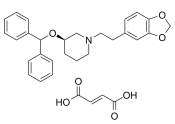
Purity: 99.74%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

Zamifenacin fumarate

(UK-76654 fumarate)

Cat. No.: HY-107649

Zamifenacin fumarate (UK-76654 fumarate) is a potent gut-selective **muscarinic M3 receptor** antagonist. Zamifenacin significantly reduces colonic motility in irritable bowel syndrome.



Purity: 99.77%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

[D-Trp7,9,10]-Substance P TFA

Cat. No.: HY-P1375A

[D-Trp7,9,10]-Substance P TFA is a substance P analogue. Substance P stimulates substance P receptors but also inhibits ion conductance through nicotinic acetylcholine receptors.

RPKPQQWFWWM-NH_2 (TFA salt)

Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg