Adrenergic receptors are a class of G protein-coupled receptors that are targets of the catecholamines, especially norepinephrine and epinephrine. Many cells possess these receptors, and the binding of a catecholamine to the receptor will generally stimulate the sympathetic nervous system. The sympathetic nervous system is responsible for the fight-or-flight response, which includes widening the pupils of the eye, mobilizing energy, and diverting blood flow from non-essential organs to skeletal muscle. There are two main groups of adrenergic receptors, α and β, with several subtypes. α receptors have the subtypes α1 and α2. β receptors have the subtypes β1, β2 and β3. All three are linked to Gs proteins, which in turn are linked to adenylate cyclase. Agonist binding thus causes a rise in the intracellular concentration of the second messenger cAMP. Downstream effectors of cAMP include cAMP-dependent protein kinase (PKA), which mediates some of the intracellular events following hormone binding.
## Adrenergic Receptor Inhibitors & Modulators

| **(+)-Penbutolol**  
| Cat. No.: HY-116790A | **Bioactivity:** (+)-Penbutolol is a β-adrenoceptor antagonist, with an IC<sub>50</sub> of 0.74 μM [1]. (+)-Penbutolol is an optical isomer of l-penbutolol with Na<sup>+</sup> channel-blocking action [2].  
| **Purity:** 95.0%  
| **Clinical Data:** No Development Reported  
| **Size:** 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg | **(4E)-SUN9221**  
| Cat. No.: HY-U00367 | **Bioactivity:** (4E)-SUN9221 is a potent antagonist of α<sub>1</sub>-adrenergic receptor and 5-HT<sub>2</sub> receptor, with antihypertensive and anti-platelet aggregation activities.  
| **Purity:** >98%  
| **Clinical Data:** No Development Reported  
| **Size:** 1 mg, 5 mg, 10 mg, 20 mg |

| **(R)-(-)-Phenylephrine**  
| Cat. No.: HY-80769 | **Bioactivity:** (R)-(−)-Phenylephrine is a selective α<sub>1</sub>-adrenoceptor agonist primarily used as a decongestant.  
| **Purity:** >98%  
| **Clinical Data:** Launched  
| **Size:** 200 mg | **(R)-(-)-Phenylephrine hydrochloride**  
| Cat. No.: HY-B0471 | **Bioactivity:** (R)-(−)-Phenylephrine hydrochloride is a selective α<sub>1</sub>-adrenoceptor agonist with pK<sub>a</sub> of 5.86, 4.87 and 4.70 for α<sub>1D</sub>, α<sub>1B</sub> and α<sub>1A</sub> receptors respectively.  
| **Purity:** 98.10%  
| **Clinical Data:** Launched  
| **Size:** 10mM x 1mL in DMSO, 100 mg, 500 mg |

| **(RS)-Butyryltimolol**  
| Cat. No.: HY-102032A | **Bioactivity:** (RS)-Butyryltimolol is the racemate of Butyryltimolol. Butyryltimolol is the butyryl ester of Timolol. Timolol is in the non-selective β blocker family of medication.  
| **Purity:** 98.0%  
| **Clinical Data:** No Development Reported  
| **Size:** 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg |

| **(±)-Befunolol**  
| Cat. No.: HY-101752 | **Bioactivity:** (±)-Befunolol is a β-adrenoceptor blocking agent.  
| **Purity:** >98%  
| **Clinical Data:** No Development Reported  
| **Size:** 1 mg |

| **3-Hydroxy-4-methoxycinnamic acid**  
| Cat. No.: HY-N0761 | **Bioactivity:** 3-Hydroxy-4-methoxycinnamic acid (Isoferulic acid) is a cinnamic acid derivative that has antidiabetic activity. 3-Hydroxy-4-methoxycinnamic acid binds to and activates α<sub>1</sub>-adrenergic receptors (IC<sub>50</sub>=1.4 μM) to enhance secret...  
| **Purity:** 97.0%  
| **Clinical Data:** No Development Reported  
| **Size:** 10mM x 1mL in DMSO, 100 mg |

| **5-HT<sub>2</sub> antagonist 1**  
| Cat. No.: HY-U00365 | **Bioactivity:** 5-HT<sub>2</sub> antagonist 1 is a potent antagonist of 5-HT<sub>2</sub> receptor, with weak α<sub>1</sub> adrenoceptor blocking activity.  
| **Purity:** >98%  
| **Clinical Data:** No Development Reported  
<p>| <strong>Size:</strong> 1 mg, 5 mg, 10 mg, 20 mg |</p>
<table>
<thead>
<tr>
<th><strong>Acebutolol hydrochloride</strong></th>
<th>Cat. No.: HY-17497A</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bioactivity:</strong></td>
<td>Acebutolol Hydrochloride is a β-adrenergic receptor antagonist used in the treatment of hypertension, angina pectoris and cardiac arrhythmias.</td>
</tr>
<tr>
<td><strong>Purity:</strong></td>
<td>98.0%</td>
</tr>
<tr>
<td><strong>Clinical Data:</strong></td>
<td>No Development Reported</td>
</tr>
<tr>
<td><strong>Size:</strong></td>
<td>10mM x 1mL in Water, 100 mg, 5 g, 10 g</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Adrenalone hydrochloride</strong></th>
<th>Cat. No.: HY-B1308</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bioactivity:</strong></td>
<td>Adrenalone hydrochloride is a selective α1-adrenocceptor agonist, used as a topical vasoconstrictor and hemostatic, used to prolong the action of local anesthetics.</td>
</tr>
<tr>
<td><strong>Purity:</strong></td>
<td>98.0%</td>
</tr>
<tr>
<td><strong>Clinical Data:</strong></td>
<td>Launched</td>
</tr>
<tr>
<td><strong>Size:</strong></td>
<td>100 mg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>AGN 192836</strong></th>
<th>Cat. No.: HY-100300</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bioactivity:</strong></td>
<td>AGN 192836 is a potent and selective α2 adrenergic agonist with EC\textsubscript{50} of 8.7, 41 and 6.6 nM for α2A, α2B and α2C receptor, respectively.</td>
</tr>
<tr>
<td><strong>Purity:</strong></td>
<td>&gt;98%</td>
</tr>
<tr>
<td><strong>Clinical Data:</strong></td>
<td>No Development Reported</td>
</tr>
<tr>
<td><strong>Size:</strong></td>
<td>1 mg, 5 mg, 10 mg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Alfuzosin hydrochloride</strong></th>
<th>Cat. No.: HY-B0192</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bioactivity:</strong></td>
<td>Alfuzosin hydrochloride is an α1 adrenergic receptor antagonist used to treat benign prostatic hyperplasia (BPH).</td>
</tr>
<tr>
<td><strong>Purity:</strong></td>
<td>99.81%</td>
</tr>
<tr>
<td><strong>Clinical Data:</strong></td>
<td>Launched</td>
</tr>
<tr>
<td><strong>Size:</strong></td>
<td>10mM x 1mL in DMSO, 10 mg, 50 mg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Alfuzosin</strong> (SL 77499)</th>
<th>Cat. No.: HY-B0192A</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bioactivity:</strong></td>
<td>Alfuzosin is an α1 adrenergic receptor antagonist used to treat benign prostatic hyperplasia (BPH).</td>
</tr>
<tr>
<td><strong>Purity:</strong></td>
<td>&gt;98%</td>
</tr>
<tr>
<td><strong>Clinical Data:</strong></td>
<td>No Development Reported</td>
</tr>
<tr>
<td><strong>Size:</strong></td>
<td>1 mg, 5 mg, 10 mg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Amezinium methylsulfate</strong></th>
<th>Cat. No.: HY-A0275</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bioactivity:</strong></td>
<td>Amezinium methylsulfate has multiple mechanisms, including stimulation of alpha and beta-1 receptors and inhibition of noradrenaline and tyramine uptake.</td>
</tr>
<tr>
<td><strong>Purity:</strong></td>
<td>99.51%</td>
</tr>
<tr>
<td><strong>Clinical Data:</strong></td>
<td>Launched</td>
</tr>
<tr>
<td><strong>Size:</strong></td>
<td>10mM x 1mL in DMSO, 100 mg, 500 mg, 1 g</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Amibegron hydrochloride</strong></th>
<th>Cat. No.: HY-103207</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bioactivity:</strong></td>
<td>Amibegron hydrochloride is a selective β3-adrenoceptor agonist, with an EC\textsubscript{50} of 3.5 nM for β-adrenoceptor in rat colon; Amibegron hydrochloride has anxiolytic and antidepressant activity.</td>
</tr>
<tr>
<td><strong>Purity:</strong></td>
<td>99.0%</td>
</tr>
<tr>
<td><strong>Clinical Data:</strong></td>
<td>No Development Reported</td>
</tr>
<tr>
<td><strong>Size:</strong></td>
<td>10mM x 1mL in DMSO, 5 mg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Amitraz</strong> (BTS-27419)</th>
<th>Cat. No.: HY-B1111</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bioactivity:</strong></td>
<td>Amitraz is a non-systemic acaricide and insecticide, with alpha-adrenergic agonist activity, interaction with octopamine receptors of the central nervous system and inhibition of monoamine oxidases and prostaglandin synthesis.</td>
</tr>
<tr>
<td><strong>Purity:</strong></td>
<td>98.0%</td>
</tr>
<tr>
<td><strong>Clinical Data:</strong></td>
<td>No Development Reported</td>
</tr>
<tr>
<td><strong>Size:</strong></td>
<td>10mM x 1mL in DMSO, 100 mg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>Ancarolol</strong></th>
<th>Cat. No.: HY-100141</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bioactivity:</strong></td>
<td>Ancarolol is a beta-adrenergic blocking agent.</td>
</tr>
<tr>
<td><strong>Purity:</strong></td>
<td>&gt;98%</td>
</tr>
<tr>
<td><strong>Clinical Data:</strong></td>
<td>No Development Reported</td>
</tr>
<tr>
<td><strong>Size:</strong></td>
<td>1 mg, 5 mg, 10 mg</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th><strong>AR-08</strong></th>
<th>Cat. No.: HY-U00371</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bioactivity:</strong></td>
<td>AR-08 is an agonist of α2-adrenergic receptor, used for the treatment of attention deficit hyperactivity disorder (ADHD).</td>
</tr>
<tr>
<td><strong>Purity:</strong></td>
<td>&gt;98%</td>
</tr>
<tr>
<td><strong>Clinical Data:</strong></td>
<td>No Development Reported</td>
</tr>
<tr>
<td><strong>Size:</strong></td>
<td>1 mg, 5 mg, 10 mg, 20 mg</td>
</tr>
</tbody>
</table>
### Asenapine (Org 5222)
*Cat. No.: HY-10121*

**Bioactivity:** Asenapine (Org 5222) inhibits adrenergic receptor (α1, α2A, α2B, α2C) with Ki of 0.25-1.2 nM and also inhibits 5-HT receptor (5A, 6, 7) with Ki of 0.03-4.0 nM.

| Purity: | >98% |
| Size:   | 10mM x 1mL in DMSO, 10 mg, 50 mg, 100 mg |

### Atenolol (RS)-Atenolol
*Cat. No.: HY-17498*

**Bioactivity:** Atenolol is a selective β1 receptor antagonist.

| Purity: | 98.80% |
| Clinical Data: | Launched |
| Size:   | 10mM x 1mL in DMSO, 1 g, 5 g |

### Atipamezole (MPV-1248)
*Cat. No.: HY-12380A*

**Bioactivity:** Atipamezole is a synthetic α2-adrenoceptor antagonist with a Ki of 1.6 nM.

| Purity: | 99.07% |
| Clinical Data: | Phase 1 |
| Size:   | 10mM x 1mL in DMSO, 10 mg, 50 mg |

### Bambuterol (KWD-2183; (+)-Bambuterol)
*Cat. No.: HY-17501*

**Bioactivity:** Bambuterol is a long acting beta-adrenoceptor agonist (LABA) used in the treatment of asthma; it also is a prodrug of terbutaline. IC50 value: Target: beta-adrenoceptor agonist Bambuterol is contraindicated in pregnancy and in people with seriously impaired liver function. It can be used by people...

| Purity: | >98% |
| Clinical Data: | Launched |
| Size:   | 10 mg, 50 mg, 100 mg |

### Bambuterol hydrochloride (KWD-2183 hydrochloride; (+)-Bambuterol hydrochloride)
*Cat. No.: HY-17501A*

**Bioactivity:** Bambuterol HCl is a long acting beta-adrenoceptor agonist (LABA) used in the treatment of asthma; it also is a prodrug of terbutaline. IC50 value: Target: beta-adrenoceptor agonist Bambuterol is contraindicated in pregnancy and in people with seriously impaired liver function. It can be used by people...

| Purity: | 99.57% |
| Clinical Data: | Launched |
| Size:   | 10mM x 1mL in DMSO, 10 mg, 50 mg |

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

**Bioactivity:** Batefenterol (GSK961081;TD-5959) is a novel muscarinic receptor antagonist and β2-adrenoceptor agonist; displays high affinity for hM2, hM3 muscarinic and hβ2-adrenoceptor with Ki values of 1.4, 1.3 and 3.7 nM, respectively.

| Purity: | 98.30% |
| Clinical Data: | Phase 2 |
| Size:   | 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg |

### Benzquinamide (P2647; BZQ; Benzquinamide)
*Cat. No.: HY-U00244*

**Bioactivity:** Benzquinamide (P2647) is an antiemetic which can bind to the α2A, α2B, and α2C adrenergic receptors (α2-AR) with Ki values of 1.365, 691, and 545 nM, respectively.

| Purity: | >98% |
| Clinical Data: | No Development Reported |
| Size:   | 1 mg, 5 mg, 10 mg, 20 mg |

### Betaxolol
*Cat. No.: HY-80381*

**Bioactivity:** Betaxolol is a selective beta1 adrenergic receptor blocker used in the treatment of hypertension and glaucoma.

| Purity: | 96.95% |
| Clinical Data: | Launched |
| Size:   | 10mM x 1mL in DMSO, 10 mg, 50 mg, 100 mg |

### Betaxolol hydrochloride
*Cat. No.: HY-80381A*

**Bioactivity:** Betaxolol Hydrochloride is a selective beta1 adrenergic receptor blocker used in the treatment of hypertension and glaucoma.

| Purity: | 98.94% |
| Clinical Data: | Launched |
| Size:   | 10mM x 1mL in DMSO, 10 mg, 50 mg, 100 mg |
### Bometolol Hydrochloride

**Cat. No.: HY-U00386**

**Bioactivity:** Bometolol Hydrochloride is a **beta-adrenergic** blocking agent, used for the research of cardiovascular disease.

**Purity:** >98%

**Clinical Data:** No Development Reported

**Size:** 1 mg, 5 mg, 10 mg

---

### Brimonidine (UK 14304; AGN190342)

**Cat. No.: HY-B0659**

**Bioactivity:** Brimonidine (UK 14304) is a full α2-adrenergic receptor (α2-AR) agonist.

**Purity:** 99.65%

**Clinical Data:** No Development Reported

**Size:** 250 mg, 500 mg

---

### Brimonidine tartrate (UK 14304 tartrate; AGN190342 tartrate)

**Cat. No.: HY-B0659A**

**Bioactivity:** Brimonidine tartrate (UK 14304 tartrate) is a full α2-adrenergic receptor (α2-AR) agonist.

**Purity:** 99.90%

**Clinical Data:** No Development Reported

**Size:** 100 mg, 500 mg

---

### Carbazochrome sodium sulfonate (AC-17)

**Cat. No.: HY-80491A**

**Bioactivity:** Carbazochrome (sodium sulfonate) (AC-17) is an antihemorrhagic agent. Target: Others Carbazochrome is an antihemorrhagic agent that will cease blood flow by causing the aggregation and adhesion of platelets in the blood to form a platelet plug, ceasing blood flow from an open wound. It is hoped that...

**Purity:** 98.0%

**Clinical Data:** No Development Reported

**Size:** 100 mg, 500 mg

---

### Carteolol hydrochloride (OPC-1085 hydrochloride)

**Cat. No.: HY-17495A**

**Bioactivity:** Carteolol HCl is a non-selective beta blocker used to treat glaucoma. Target: Beta adrenergic Receptor Carteolol HCl is a beta-adrenergic antagonist used as an anti-angina agent, an anti-hypertensive agent, and an antiglaucoma agent. Carteolol hydrochloride at 1 mmol/L...

**Purity:** 98.0%

**Clinical Data:** No Development Reported

**Size:** 10 mM x 1 mL in DMSO,
50 mg, 100 mg

---

### Carvedilol (BM 14190)

**Cat. No.: HY-B0006**

**Bioactivity:** Carvedilol (BM14190) is a non-selective beta blocker/alpha-1 blocker with an IC50 of 3.8 μM for inhibition of LDL oxidation. Target: Beta Adrenergic Receptor Carvedilol is a non-selective-blocking agent and is used in the treatment of...

**Purity:** 99.93%

**Clinical Data:** No Development Reported

**Size:** 10 mM x 1 mL in DMSO,
50 mg, 100 mg

---

### Carvedilol phosphate hemihydrate (BM 14190 phosphate hemihydrate)

**Cat. No.: HY-B0006A**

**Bioactivity:** Carvedilol phosphate hemihydrate (BM 14190 phosphate hemihydrate) is a non-selective beta blocker/alpha-1 blocker with an IC50 of 3.8 μM for inhibition of LDL oxidation.

**Purity:** >98%

**Clinical Data:** No Development Reported

**Size:** 100 mg, 500 mg

---

### Centanafadine (EB-1020)

**Cat. No.: HY-16736**

**Bioactivity:** Centanafadine is dual norepinephrine (NE)/dopamine (DA) transporter inhibitor, also inhibits serotonin transporter, with IC50s of 6 nM, 38 nM and 83 nM for human NE, DA and serotonin transporter, respectively.

**Purity:** >98%

**Clinical Data:** No Development Reported

**Size:** 250 mg, 500 mg

---

### Centanafadine hydrochloride (EB-1020 (hydrochloride))

**Cat. No.: HY-16736A**

**Bioactivity:** Centanafadine (hydrochloride) is dual norepinephrine (NE)/dopamine (DA) transporter inhibitor, also inhibits serotonin transporter, with IC50s of 6 nM, 38 nM and 83 nM for human NE, DA and serotonin transporter, respectively.

**Purity:** >98%

**Clinical Data:** No Development Reported

**Size:** 250 mg, 500 mg

---

### Cicloprolol hydrochloride

**Cat. No.: HY-U00066**

**Bioactivity:** Cicloprolol is a partial β1-adrenergceptor agonist.

**Purity:** >98%

**Clinical Data:** No Development Reported

**Size:** 1 mg, 5 mg, 10 mg, 20 mg
Clenbuterol hydrochloride (NAB-365 hydrochloride) Cat. No.: HY-B1614

Bioactivity: Clenbuterol hydrochloride (NAB-365 hydrochloride) is a β2 adrenergic receptor agonist. It is a powerful bronchodilator with fat burning properties.

Purity: 99.23%
Clinical Data: Launched
Size: 10mM x 1mL in DMSO, 25 mg, 50 mg, 100 mg, 200 mg

Clonidine hydrochloride Cat. No.: HY-B0409A

Bioactivity: Clonidine hydrochloride is an agonist of α2-adrenoceptor and potent antihypertensive agent.

Purity: 99.95%
Clinical Data: Launched
Size: 10mM x 1mL in DMSO, 100 mg, 500 mg

Clorprenaline hydrochloride Cat. No.: HY-B1347

Bioactivity: Clorprenaline hydrochloride is a β2-adrenergic receptor agonist.

Purity: 99.89%
Clinical Data: Launched
Size: 10mM x 1mL in DMSO, 50 mg

D2343 Cat. No.: HY-U00206

Bioactivity: D2343 is a β2-adrenoceptor agonist and also is an α1-adrenoceptor inhibitor.

Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg, 10 mg, 20 mg

Dapiprazole hydrochloride Cat. No.: HY-A0142A

Bioactivity: Dapiprazole hydrochloride is a potent α-adrenergic blocking drug, which is used to reverse mydriasis after eye examination.

Purity: 99.87%
Clinical Data: Launched
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

Deriglidole (SL 86-0715) Cat. No.: HY-101683

Bioactivity: Deriglidole is a peripheral adrenoceptor antagonist with a high affinity for α2-adrenoceptors.

Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg, 10 mg, 20 mg

Detomidine Cat. No.: HY-B0163

Bioactivity: Detomidine produce dose-dependent sedative and analgesic effects, is a nonnarcotic, synthetic α2-adrenergic agonist

Purity: >98%
Clinical Data: Launched
Size: 10 mg, 50 mg, 100 mg

Detomidine hydrochloride Cat. No.: HY-B0163A

Bioactivity: Detomidine hydrochloride produce dose-dependent sedative and analgesic effects, is a nonnarcotic, synthetic α2-adrenergic agonist

Purity: 99.80%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 10 mg, 50 mg, 100 mg

Dexmedetomidine hydrochloride (S)-Medetomidine hydrochloride, ((+)-Medetomidine hydrochloride) Cat. No.: HY-17034A

Bioactivity: Dexmedetomidine Hydrochloride is an agonist of adrenergic alpha-2 receptor, which is used in veterinary medicine for its analgesic and sedative properties. Target: Adrenergic alpha-2 Receptor Dexmedetomidine, acting at alpha(2A) adrenoceptors, must be present during the encoding process to decrease...

Purity: 98.0%
Clinical Data: Launched
Size: 10mM x 1mL in Water, 5 mg, 10 mg, 50 mg

DL-Epinephrine (±)-Epinephrine; (±)-Adrenaline; DL-Adrenalin) Cat. No.: HY-B0447

Bioactivity: DL-Epinephrine is the racemate of epinephrine. L-Epinephrine is a hormone secreted by the medulla of the adrenal glands. L-Epinephrine is an α-adrenergic and β-adrenergic receptor agonist.

Purity: 99.0%
Clinical Data: No Development Reported
Size: 1 g, 5 g
<table>
<thead>
<tr>
<th>Compound</th>
<th>Cat. No.</th>
<th>Purity</th>
<th>Clinical Data</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Dobutamine hydrochloride</td>
<td>HY-15746</td>
<td>&gt;98%</td>
<td>Launched</td>
<td>1 mg, 5 mg, 10 mg, 20 mg</td>
</tr>
<tr>
<td>Bioactivity:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dobutamine Hcl(Dobutrex) is a sympathomimetic drug used in the treatment of heart failure and cardiogenic shock. Its primary mechanism is direct stimulation of β1 receptors of the sympathetic nervous system.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dopexamine hydrochloride</td>
<td>HY-U00205</td>
<td>&gt;98%</td>
<td>Launched</td>
<td>1 mg</td>
</tr>
<tr>
<td>Bioactivity:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Dopexamine hydrochloride is a β2 adrenergic receptor agonist.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Doxazosin (UK 33274)</td>
<td>HY-80098</td>
<td>&gt;98%</td>
<td>Launched</td>
<td>100 mg, 500 mg</td>
</tr>
<tr>
<td>Bioactivity:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Doxazosin(UK33274) is a quinazoline-derivative that selectively antagonizes postsynaptic α1-adrenergic receptors.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Doxazosin mesylate (UK 33274 mesylate)</td>
<td>HY-80098A</td>
<td>&gt;98.60%</td>
<td>Launched</td>
<td>10mM x 1mL in DMSO, 500 mg, 1 g</td>
</tr>
<tr>
<td>Bioactivity:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Doxazosin mesylate(UK 33274) is a quinazoline-derivative that selectively antagonizes postsynaptic α1-adrenergic receptors. Target: α1-adrenergic receptor Doxazosin (mesylate) is the mesylate salt form of doxazosin, which is a long-lasting inhibitor of α1-adrenoceptors that is widely used to treat...</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ecastolol</td>
<td>HY-101691</td>
<td>&gt;98%</td>
<td>No Development Reported</td>
<td>1 mg, 5 mg, 10 mg, 20 mg</td>
</tr>
<tr>
<td>Bioactivity:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ecastolol is a beta adrenergic receptor antagonist, with antianginal activities.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Epiberberine chloride</td>
<td>HY-N0226A</td>
<td>99.60%</td>
<td>No Development Reported</td>
<td>10mM x 1mL in DMSO, 5 mg, 10 mg</td>
</tr>
<tr>
<td>Bioactivity:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Epiberberine chloride, a natural alkaloid, is a BACE1 inhibitor, which also exhibits inhibition activity on CYP2D6 and aldose reductase, alpha-adrenoceptors, acetylcholinesterase (AChE), butyrylcholinesterase, and b-site amyloid precursor protein cleaving enzyme 1.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Esmolol hydrochloride</td>
<td>HY-B1392</td>
<td>99.77%</td>
<td>Launched</td>
<td>10mM x 1mL in DMSO, 10 mg, 50 mg, 100 mg</td>
</tr>
<tr>
<td>Bioactivity:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Esmolol Hydrochloride is a beta adrenergic receptor blocker. Target: Adrenergic receptor Esmolol Hydrochloride is the hydrochloride salt form of Esmolol, a short and rapid-acting beta adrenergic antagonist belonging to the class II anti-arrhythmic drugs and devoid of intrinsic sympathomimetic...</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Falintolol, (Z)-</td>
<td>HY-U00283</td>
<td>&gt;98%</td>
<td>No Development Reported</td>
<td>1 mg, 5 mg, 10 mg, 20 mg</td>
</tr>
<tr>
<td>Bioactivity:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Falintolol, (Z)-, a new β-adrenergic antagonist, is characterized by the presence of an oxime function.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fenmetozole Tosylate</td>
<td>HY-U00402</td>
<td>&gt;98%</td>
<td>No Development Reported</td>
<td>1 mg, 5 mg, 10 mg, 20 mg</td>
</tr>
<tr>
<td>Bioactivity:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fenmetozole Tosylate is an antagonist of the actions of ethanol, also antagonizes α2-adrenergic receptor, and acts as an antidepressant drug.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
**Fenspiride Hydrochloride**  
**Cat. No.: HY-A0027**

**Bioactivity:** Fenspiride Hcl is an α adrenergic and H1 histamine receptor antagonist.

**Purity:** 99.03%
**Clinical Data:** No Development Reported
**Size:** 10mM x 1mL in DMSO, 100 mg

---

**Fiduxosin**  
**Cat. No.: HY-U00399**

**Bioactivity:** Fiduxosin is a potent α1-adrenoceptor antagonist, with $K_i$ of 0.160 nM, 24.9 nM, and 0.920 nM for α1a-, α1b-, and α1d-adrenoceptors, respectively.

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

---

**Gramine (Donaxine)**  
**Cat. No.: HY-N0166**

**Bioactivity:** Gramine (Donaxine) is a natural alkaloid isolated from giant reed, acts as an active adiponectin receptor (AdipoR) agonist, with IC$_{50}$ of 3.2 and 4.2 μM for AdipoR2 and AdipoR1, respectively. Gramine is also a human and mo...

**Purity:** 99.45%
**Clinical Data:** No Development Reported
**Size:** 10mM x 1mL in DMSO, 50 mg

---

**Guanabenz Acetate**  
**(BR-750; Wy8678 acetate)**  
**Cat. No.: HY-B0566**

**Bioactivity:** Guanabenz (Acetate) (BR-750) is an alpha-2 selective adrenergic agonist used as an antihypertensive agent.

**Purity:** 98.88%
**Clinical Data:** Launch
**Size:** 10mM x 1mL in DMSO, 50 mg, 100 mg, 500 mg

---

**Guanfacine**  
**Cat. No.: HY-17416A**

**Bioactivity:** Guanfacine is a selective α2A receptor agonist. Target: α2A Receptor Guanfacine is a sympatholytic. It is a selective α2A receptor agonist. These receptors are concentrated heavily in the prefrontal cortex and the locus coeruleus, with the potential to improve attention resulting from interaction with...

**Purity:** >98%
**Clinical Data:** Launch
**Size:** 10 mg, 50 mg

---

**Guanfacine hydrochloride**  
**(Guanfacine)**  
**Cat. No.: HY-17416**

**Bioactivity:** Guanfacine Hcl, an anti-hypertensive agent, is a selective α2A-adrenoceptor agonist with Kd of 31 nM and displays 60-fold selectivity over α2B-adrenoceptors.

**Purity:** 99.96%
**Clinical Data:** Launch
**Size:** 10mM x 1mL in DMSO, 10 mg, 50 mg, 100 mg

---

**Guanoxabenz**  
**(Hydroxyguanabenz)**  
**Cat. No.: HY-U00123**

**Bioactivity:** Guanoxabenz is an a2 adrenergic receptor agonist.

**Purity:** >98%
**Clinical Data:** No Development Reported
**Size:** 1 mg, 5 mg, 10 mg, 20 mg

---

**HOKU-81**  
**(4-Hydroxytulobuterol)**  
**Cat. No.: HY-50291**

**Bioactivity:** HOKU-81, a new bronchodilator, is one of the metabolites of tulobuterol.

**Purity:** 95.0%
**Clinical Data:** No Development Reported
**Size:** 10mM x 1mL in DMSO, 5 mg, 25 mg

---

**Hydrocortisone 17-butyrate**  
**(Cortisol 17-butyrate; Hydrocortisone butyrate)**  
**Cat. No.: HY-80983**

**Bioactivity:** Hydrocortisone 17-butyrate is an adrenocortico hormone.

**Purity:** 99.93%
**Clinical Data:** Launch
**Size:** 10mM x 1mL in DMSO, 200 mg

---

**ICI 118,551 hydrochloride**  
**(ICI 118551 hydrochloride)**  
**Cat. No.: HY-13951**

**Bioactivity:** ICI 118,551 (hydrochloride) is a highly selective β2 adrenergic receptor antagonist, with $K_i$ of 0.7, 49.5 and 611 nM for β2, β1 and β3 receptors, respectively.

**Purity:** 98.50%
**Clinical Data:** No Development Reported
**Size:** 10mM x 1mL in DMSO, 10 mg, 50 mg, 100 mg
<table>
<thead>
<tr>
<th>Compound</th>
<th>Cat. No.</th>
<th>Purity</th>
<th>Clinical Data</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Imoxiterol (RP 58802B)</td>
<td>HY-101585</td>
<td>&gt;98%</td>
<td>No Development Reported</td>
<td>1 mg, 5 mg, 10 mg, 20 mg</td>
</tr>
<tr>
<td>Bioactivity:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Imoxiterol is a β-adrenergic agonist.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Indacaterol</td>
<td>HY-14299</td>
<td>96.17%</td>
<td>Launched</td>
<td>100 mg, 500 mg</td>
</tr>
<tr>
<td>Bioactivity:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Indacaterol (Onbrez; Arcapta) is an ultra-long-acting β-adrenoceptor agonist.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Indacaterol maleate (QAB149)</td>
<td>HY-14299A</td>
<td>99.92%</td>
<td>Launched</td>
<td>10mM x 1mL in DMSO, 100 mg, 500 mg</td>
</tr>
<tr>
<td>Bioactivity:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Indacaterol (QAB149) maleate is an ultra-long-acting β-adrenoceptor agonist.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Indanidine</td>
<td>HY-101717</td>
<td>&gt;98%</td>
<td>No Development Reported</td>
<td>1 mg, 5 mg, 10 mg, 20 mg</td>
</tr>
<tr>
<td>Bioactivity:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Indanidine is an alpha-adrenergic agonist.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Indoramin D5 (Indoramine D5; Wy-21901 D5)</td>
<td>HY-127605</td>
<td>&gt;98%</td>
<td>No Development Reported</td>
<td>1 mg, 5 mg</td>
</tr>
<tr>
<td>Bioactivity:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Indoramin D5 is deuterium labeled Indoramin, which is a piperidine antiadrenergic agent.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Isoprenaline hydrochloride</td>
<td>HY-B0468</td>
<td>99.0%</td>
<td>Phase 3</td>
<td>200 mg, 1 g</td>
</tr>
<tr>
<td>Bioactivity:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Isoprenaline hydrochloride is a non-selective beta-adrenergic receptor agonist with potent peripheral vasodilator, bronchodilator, and cardiac stimulating activities.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ivabradine D3 Hydrochloride</td>
<td>HY-B0162AS1</td>
<td>&gt;98%</td>
<td>No Development Reported</td>
<td>1 mg, 5 mg, 10 mg</td>
</tr>
<tr>
<td>Bioactivity:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ivabradine D3 Hydrochloride is the deuterium labeled Ivabradine hydrochloride. Ivabradine hydrochloride is a new I f inhibitor with IC_{50} of 2.9 μM, and used as a pure heart rate lowering agent.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ivabradine D6 hydrochloride</td>
<td>HY-B0162AS</td>
<td>&gt;98%</td>
<td>No Development Reported</td>
<td>1 mg, 5 mg</td>
</tr>
<tr>
<td>Bioactivity:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ivabradine D6 hydrochloride is the deuterium labeled Ivabradine hydrochloride. Ivabradine hydrochloride is a new I f inhibitor with IC_{50} of 2.9 μM, and used as a pure heart rate lowering agent.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ko-3290</td>
<td>HY-101721</td>
<td>&gt;98%</td>
<td>No Development Reported</td>
<td>1 mg, 5 mg, 10 mg, 20 mg</td>
</tr>
<tr>
<td>Bioactivity:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Ko-3290 is an antagonist of β-adrenoceptor, with cardioselectivity and antilipolytic effects in animals.</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Imoxiterol

Bioactivity: Imoxiterol is a β-adrenergic agonist.

Purity: 98.0%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg, 10 mg, 20 mg

Indacaterol

Bioactivity: Indacaterol (Onbrez; Arcapta) is an ultra-long-acting β-adrenoceptor agonist.

Purity: 96.17%
Clinical Data: Launched
Size: 100 mg, 500 mg

Indacaterol maleate (QAB149)

Bioactivity: Indacaterol (QAB149) maleate is an ultra-long-acting β-adrenoceptor agonist.

Purity: 99.92%
Clinical Data: Launched
Size: 10mM x 1mL in DMSO, 100 mg, 500 mg

Indanidine

Bioactivity: Indanidine is an α-adrenergic agonist.

Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg, 10 mg, 20 mg

Indoramin D5 (Indoramine D5; Wy-21901 D5)

Bioactivity: Indoramin D5 is deuterium labeled Indoramin, which is a piperidine antiadrenergic agent.

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

Isoprenaline hydrochloride (Isoproterenol hydrochloride)

Bioactivity: Isoprenaline hydrochloride is a non-selective β-adrenergic receptor agonist with potent peripheral vasodilator, bronchodilator, and cardiac stimulating activities.

Purity: 99.0%
Clinical Data: Phase 3
Size: 200 mg, 1 g

Ivabradine D3 Hydrochloride

Bioactivity: Ivabradine D3 Hydrochloride is the deuterium labeled Ivabradine hydrochloride. Ivabradine hydrochloride is a new I f inhibitor with IC_{50} of 2.9 μM, and used as a pure heart rate lowering agent.

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

Ivabradine D6 hydrochloride

Bioactivity: Ivabradine D6 hydrochloride is the deuterium labeled Ivabradine hydrochloride. Ivabradine hydrochloride is a new I f inhibitor with IC_{50} of 2.9 μM, and used as a pure heart rate lowering agent.

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

Ivabradine hydrochloride

Bioactivity: Ivabradine is an orally bioavailable, hyperpolarization-activated, cyclic nucleotide-gated (HCN) channel blocker.

Purity: 98.39%
Clinical Data: Launched
Size: 10mM x 1mL in DMSO, 10 mg, 50 mg, 100 mg, 200 mg

Ko-3290

Bioactivity: Ko-3290 is an antagonist of β-adrenoceptor, with cardioselectivity and antilipolytic effects in animals.

Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg, 10 mg, 20 mg
<table>
<thead>
<tr>
<th>Compound</th>
<th>Cat. No.</th>
<th>Bioactivity</th>
<th>Purity</th>
<th>Clinical Data</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>L-(−)-α-Methyldopa</td>
<td>HY-B0225</td>
<td>Methyldopa is an alpha-adrenergic agonist (selective for α2-adrenergic receptors) psychoactive drug used as a sympatholytic or antihypertensive. Target: alpha-adrenergic agonist Methyldopa is an alpha-adrenergic agonist (selective for α2-adrenergic receptors) psychoactive drug used as a...</td>
<td>&gt;98%</td>
<td>Launched</td>
<td>1 g</td>
</tr>
<tr>
<td>L-(−)-α-Methyldopa hydrate</td>
<td>HY-B0225B</td>
<td>L-(−)-α-Methyldopa hydrate is an alpha-adrenergic agonist (selective for α2-adrenergic receptors) psychoactive drug used as a sympatholytic or antihypertensive. Target: alpha-adrenergic agonist Methyldopa is an alpha-adrenergic agonist (selective for α2-adrenergic receptors) psychoactive...</td>
<td>98.0%</td>
<td>Launched</td>
<td>1 g x 1mL in DMSO, 1 g</td>
</tr>
<tr>
<td>L-(−)-α-Methyldopa hydrochloride</td>
<td>HY-B0225A</td>
<td>L-(−)-α-Methyldopa hydrochloride is an alpha-adrenergic agonist (selective for α2-adrenergic receptors) psychoactive drug used as a sympatholytic or antihypertensive. Target: alpha-adrenergic agonist Methyldopa is an alpha-adrenergic agonist (selective for α2-adrenergic receptors) psychoactive...</td>
<td>&gt;98%</td>
<td>Launched</td>
<td>1 g</td>
</tr>
<tr>
<td>L-765314</td>
<td>HY-101385</td>
<td>L-765314 is a potent and selective α1b adrenergic receptor antagonist with K_s of 5.4 nM and 2.0 nM for rat and human α1b adrenergic receptor, respectively.</td>
<td>&gt;98%</td>
<td>No Development Reported</td>
<td>250 mg, 500 mg</td>
</tr>
<tr>
<td>L-771688</td>
<td>HY-U00237</td>
<td>L-771688 is a highly selective α1A-Adrenoceptor antagonist with a K_i of 0.43±0.02 nM.</td>
<td>&gt;98%</td>
<td>No Development Reported</td>
<td>1 mg, 5 mg, 10 mg, 20 mg</td>
</tr>
<tr>
<td>L-Epinephrine bitartrate</td>
<td>HY-B0447A</td>
<td>L-Epinephrine bitartrate is an α-adrenergic and β-adrenergic receptor agonist. L-Epinephrine is a hormone secreted by the medulla of the adrenal glands.</td>
<td>99.0%</td>
<td>Launched</td>
<td>10mM x 1mL in DMSO, 1 g, 5 g</td>
</tr>
<tr>
<td>L-Epinephrine</td>
<td>HY-B0447B</td>
<td>L-Epinephrine is a hormone secreted by the medulla of the adrenal glands. L-Epinephrine is an α-adrenergic and β-adrenergic receptor agonist.</td>
<td>99.0%</td>
<td>Launched</td>
<td>1 g x 1mL in DMSO, 1 g</td>
</tr>
<tr>
<td>Labetalol hydrochloride</td>
<td>HY-B1108</td>
<td>Labetalol hydrochloride is a mixed alpha/beta adrenergic antagonist that is used to treat high blood pressure.</td>
<td>98.0%</td>
<td>Launched</td>
<td>10mM x 1mL in DMSO, 100 mg</td>
</tr>
<tr>
<td>Latrepirdine dihydrochloride</td>
<td>HY-14537</td>
<td>Latrepirdine dihydrochloride is a neuroactive compound with antagonist activity at histaminergic, α-adrenergic, and serotonergic receptors. Latrepirdine stimulates amyloid precursor protein (APP) catabolism and amyloid-β (Aβ) secretion.</td>
<td>99.75%</td>
<td>Launched</td>
<td>10mM x 1mL in DMSO, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg, 200 mg</td>
</tr>
</tbody>
</table>
| **Levalbuterol tartrate**  
Levosalbutamol tartrate | Bioactivity: Levosalbutamol tartrate (levalbuterol) is the R-enantiomer of the short-acting β2-adrenergic receptor agonist salbutamol.  
Purity: >98%  
Clinical Data: Launched  
Size: 10 mg, 50 mg |
| --- | --- |
| **Levobetaxolol hydrochloride**  
((S)-Betaxolol hydrochloride; AL-1577A) | Bioactivity: Levobetaxolol hydrochloride is a beta-adrenergic receptor inhibitor (beta blocker), used to lower the pressure in the eye in treating conditions such as glaucoma.  
Purity: 98.11%  
Clinical Data: Launched  
Size: 10mM x 1mL in DMSO, 10 mg, 50 mg, 100 mg |
| **Lidanserin**  
(ZK-33839) | Bioactivity: Lidanserin is a drug which acts as a combined 5-HT	extsubscript{2A} and α	extsubscript{1} adrenergic receptor antagonist.  
Purity: 98.0%  
Clinical Data: No Development Reported  
Size: 1 mg, 5 mg, 10 mg |
| **Lofexidine** | Bioactivity: Lofexidine is a selective α2-receptor agonist, commonly used to alleviate the physical symptoms of heroin and other types of opioid withdrawal [1] [2].  
Purity: 99.08%  
Clinical Data: Launched  
Size: 50 mg |
| **Lofexidine hydrochloride**  
(Baq-168; MDL-14042) | Bioactivity: Lofexidine (hydrochloride) is a selective α2-receptor agonist, commonly used to alleviate the physical symptoms of heroin and other types of opioid withdrawal [1] [2].  
Purity: >98%  
Clinical Data: Launched  
Size: 50 mg |
| **Lusaperidone**  
(R107474) | Bioactivity: Lusaperidone (R107474) is an α2 antagonist adrenergic receptor with K\textsubscript{i} of 0.13 and 0.15 nM for α2A and α2C, respectively.  
Purity: >98%  
Clinical Data: No Development Reported  
Size: 1 mg, 5 mg, 10 mg, 20 mg |
| **Medetomidine** | Bioactivity: Medetomidine (Domtor) is a potent, highly selective α2-adrenoceptor agonist (K\textsubscript{i} values are 1.08 and 1750 nM for α2- and α1-adrenoceptors respectively).  
Purity: 99.88%  
Clinical Data: Launched  
Size: 5 mg, 10 mg, 50 mg |
| **Medetomidine hydrochloride**  
(MPV785) | Bioactivity: Medetomidine Hydrochloride is an agonist of adrenergic alpha-2 receptor, which is used in veterinary medicine for its analgesic and sedative properties. Target: Adrenergic alpha-2 Receptor Medetomidine, acting at alpha(2A) adrenoceptors, must be present during the encoding process to decrease discrete...  
Purity: 99.49%  
Clinical Data: No Development Reported  
Size: 10mM x 1mL in Water, 10 mg, 50 mg |
| **Methoxamine hydrochloride** | Bioactivity: Methoxamine hydrochloride is a noradrenergic α1 agonist [1].  
Purity: >98%  
Clinical Data: Launched  
Size: 10mM x 1mL in DMSO, 10 mg, 50 mg |
| **Metipranolol hydrochloride** | Bioactivity: Metipranolol is a non-selective β adrenergic receptor blocking agent.  
Purity: 99.94%  
Clinical Data: Launched  
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg |
### Metoprolol
**Cat. No.: HY-17503**

**Bioactivity:** Metoprolol (Toprol) is a selective β1 receptor blocker used in treatment of several diseases of the cardiovascular system, especially hypertension. IC50 value: Target: β1 receptor

**Purity:** >98%
**Clinical Data:** Launched
**Size:** 100 mg

---

### Metoprolol Succinate
**Cat. No.: HY-17503A**

**Bioactivity:** Metoprolol Succinate (Toprol XL) is a selective β1 receptor blocker used in treatment of several diseases of the cardiovascular system, especially hypertension. IC50 value: Target: β1 receptor

**Purity:** 98.0%
**Clinical Data:** Launched
**Size:** 10mM x 1mL in DMSO, 50 mg, 100 mg, 200 mg, 500 mg

---

### Metoprolol Tartrate
**Cat. No.: HY-17503B**

**Bioactivity:** Metoprolol is a cardioselective β1-adrenergic blocking agent.

**Purity:** >98%
**Clinical Data:** Launched
**Size:** 100 mg

---

### MG 1
**Cat. No.: HY-U00110**

**Bioactivity:** MG 1 is an α1 adrenergic receptor antagonist.

**Purity:** >98%
**Clinical Data:** No Development Reported
**Size:** 1 mg, 5 mg, 10 mg, 20 mg

---

### Midaglizole hydrochloride
**(±)-DG5128; DGS128**
**Cat. No.: HY-U00165**

**Bioactivity:** Midaglizole hydrochloride (DG5128) is a preferential α2-adrenoceptor antagonist. Midaglizole hydrochloride (DG5128) exhibits 7.4 times higher affinity (pKᵢ=6.28) toward α2-adrenoceptor than α1-adrenoceptor.

**Purity:** >98%
**Clinical Data:** No Development Reported
**Size:** 1 mg, 5 mg, 10 mg, 20 mg

---

### Mirabegron
**(YM178)**
**Cat. No.: HY-14773**

**Bioactivity:** Mirabegron is a selective β₃-adrenoceptor agonist with EC₅₀ of 22.4 nM.

**Purity:** 99.08%
**Clinical Data:** Launched
**Size:** 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg

---

### Moxisylyte hydrochloride
(Thymoxamine hydrochloride)
**Cat. No.: HY-81435**

**Bioactivity:** Moxisylyte (hydrochloride) is (alpha 1-blocker) antagonist, it can vasodilates cerebral vessels without reducing blood pressure. It is also used locally in the eye to reverse the mydriasis caused by phenylephrine and other sympathomimetic agents. [3][2]

**Purity:** 99.96%
**Clinical Data:** Launched
**Size:** 10mM x 1mL in DMSO, 100 mg, 1 g

---

### Naftopidil
**(KT-611; BM-15275)**
**Cat. No.: HY-80391**

**Bioactivity:** Naftopidil (Flivas), a selective α1-adrenergic receptor antagonist or alpha blocker, is an antihypertensive drug.

**Purity:** 98.83%
**Clinical Data:** Launched
**Size:** 10mM x 1mL in DMSO, 5 g, 10 g

---

### Naphazoline hydrochloride
**Cat. No.: HY-B0446**

**Bioactivity:** Naphazoline HCl is an ocular vasoconstrictor and imidazoline derivative sympathomimetic amine.

**Purity:** 96.55%
**Clinical Data:** Launched
**Size:** 10mM x 1mL in DMSO, 1 g, 5 g, 10 g
Nebivolol (R 065824)  
**Cat. No.:** HY-B0203  
**Bioactivity:** Nebivolol selectively inhibits β1- adrenergic receptor with IC50 of 0.8 nM.  
**Purity:** >98%  
**Clinical Data:** Launched  
**Size:** 5 mg, 10 mg, 50 mg

Nebivolol hydrochloride (R 065824 hydrochloride)  
**Cat. No.:** HY-B0203A  
**Bioactivity:** Nebivolol hydrochloride selectively inhibits β1- adrenergic receptor with IC50 of 0.8 nM.  
**Purity:** 98.0%  
**Clinical Data:** Launched  
**Size:** 10 mM x 1 mL in DMSO, 10 mg, 50 mg

Nefazodone hydrochloride (BMY-13754; MJ-13754-1)  
**Cat. No.:** HY-B1396  
**Bioactivity:** Nefazodone hydrochloride is an antidepressant drug.  
**Purity:** 99.71%  
**Clinical Data:** Launched  
**Size:** 10 mM x 1 mL in DMSO, 10 mg, 50 mg

Octopamine hydrochloride (±)-p-Octopamine hydrochloride)  
**Cat. No.:** HY-B0528A  
**Bioactivity:** Octopamine Hydrochloride is an endogenous biogenic amine that is closely related to norepinephrine, and has effects on the adrenergic and dopaminergic systems.  
**Purity:** 99.0%  
**Clinical Data:** No Development Reported  
**Size:** 10 mM x 1 mL in Water, 1 g, 5 g

Nicergoline  
**Cat. No.:** HY-B0702  
**Bioactivity:** Nicergoline is an ergot derivative used to treat senile dementia and other disorders with vascular origins.  
**Purity:** 99.06%  
**Clinical Data:** Launched  
**Size:** 10 mM x 1 mL in DMSO, 10 mg, 50 mg

Pamatolol  
**Cat. No.:** HY-U00019  
**Bioactivity:** Pamatolol is a cardioselective beta-adrenoceptor antagonist without sympathomimetic activity.  
**Purity:** >98%  
**Clinical Data:** No Development Reported  
**Size:** 1 mg, 5 mg, 10 mg, 20 mg
Pardoprunox
(SLV-308; DU-126891)  
**Bioactivity:** Pardoprunox (SLV-308) is a novel partial dopamine D2 and D3 receptor agonist and serotonin 5-HT1A receptor agonist; D2 (pKi = 8.1) and D3 receptor (pKi = 8.6) partial agonist (IA = 50% and 67%, respectively) and 5-HT1A receptor (pKi = 8.5) full agonist (IA = 100%); also binds to D4 (pKi = 7.8), ...

**Purity:** > 98%
**Clinical Data:** Phase 3
**Size:** 5 mg, 10 mg, 50 mg, 100 mg

---

Pardoprunox hydrochloride
(SLV-308 hydrochloride; DU-126891 hydrochloride)  
**Bioactivity:** Pardoprunox hydrochloride is a novel partial dopamine D2 and D3 receptor agonist and serotonin 5-HT1A receptor agonist, D2 (pKi = 8.1) and D3 receptor (pKi = 8.6) partial agonist and 5-HT1A receptor (pKi = 8.5) full agonist.

**Purity:** 98.89%
**Clinical Data:** Phase 3
**Size:** 10 mM x 1 mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg

---

Pargolol hydrochloride
(Ko 1400 hydrochloride)  
**Bioactivity:** Pargolol hydrochloride is a β adrenergic receptor antagonist.

**Purity:** > 98%
**Clinical Data:** No Development Reported
**Size:** 1 mg, 5 mg, 10 mg, 20 mg

---

Penbutolol sulfate
( (-)-Terbuclomine)  
**Bioactivity:** Penbutolol sulfate is able to bind to both beta-1 adrenergic receptors and beta-2 adrenergic receptors (the two subtypes), thus making it a non-selective β blocker. Penbutolol is a sympathomimetic drug used in the treatment of high blood pressure.

**Purity:** 99.62%
**Clinical Data:** No Development Reported
**Size:** 10 mM x 1 mL in DMSO, 10 mg, 50 mg

---

Perphenazine  
**Bioactivity:** Perphenazine is a typical antipsychotic drug, inhibits 5-HT2A receptor, Alpha-1A adrenergic receptor, Dopamine receptor D2/D3, D2L receptor, and Histamine H1 receptor, with Ki values of 5.6, 10, 0.765/0.13, 3.4, and 8 ...

**Purity:** 99.90%
**Clinical Data:** Launched
**Size:** 10 mM x 1 mL in DMSO, 1 g, 5 g

---

Phenoxybenzamine hydrochloride  
**Bioactivity:** Phenoxybenzamine hydrochloride is a selective antagonist of both α-adrenoceptor and calmodulin that is commonly used for the treatment of hypertension, specifically caused by pheochromocytoma.

**Purity:** 98.0%
**Clinical Data:** Launched
**Size:** 10 mM x 1 mL in DMSO, 200 mg, 500 mg, 1 g

---

Phentolamine mesylate
(Phentolamine methanesulfonate)  
**Bioactivity:** Phentolamine mesylate is a competitive, reversible α-adrenoceptor antagonist with an IC50 between 5 and 30 nM.

**Purity:** 99.83%
**Clinical Data:** Launched
**Size:** 10 mM x 1 mL in Water, 100 mg, 500 mg

---

Pimozide
(R6238)  
**Bioactivity:** Pimozide is a dopamine receptor antagonist, with Kᵦ of 1.4 nM, 2.5 nM and 588 nM for dopamine D2, D3 and D1 receptors, respectively, and also has affinity at α1-adrenoceptor, with a Kᵦ of 39 nM; Pimozide also inhib...

**Purity:** 99.88%
**Clinical Data:** Launched
**Size:** 10 mM x 1 mL in DMSO, 50 mg

---

Pindolol
(LB-46)  
**Bioactivity:** Pindolol (LB-46) is a nonselective β-blocker with partial beta-adrenergic receptor agonist activity, also functions as a 5-HT1A receptor weak partial agonist / antagonist (Ki=33 nM).

**Purity:** 99.84%
**Clinical Data:** Launched
**Size:** 10 mM x 1 mL in DMSO, 100 mg
Piperoxan hydrochloride (Benodaine hydrochloride)  
**Cat. No.: HY-100850**

**Bioactivity:** Piperoxan hydrochloride is an $\alpha_2$ adrenoceptor antagonist.

**Purity:** 99.68%

**Clinical Data:** No Development Reported

**Size:** 10mM x 1mL in DMSO, 2 mg, 5 mg, 10 mg, 25 mg, 50 mg, 100 mg

---

Piribedil  
**Cat. No.: HY-12707**

**Bioactivity:** Piribedil is a **dopamine D$_2$ receptor** (D$_2$R) agonist which also displays antagonist property at **$\alpha_1_A$-adrenoceptor** (h$\alpha_1_A$-AR).

**Purity:** 99.90%

**Clinical Data:** Launched

**Size:** 10mM x 1mL in DMSO, 10 mg, 50 mg, 100 mg, 200 mg, 500 mg

---

Pira**bedil D8** (ET-495 D8)  
**Cat. No.: HY-12707S**

**Bioactivity:** Piribedil D8 is the deuterium labeled Piribedil, which is an antiparkinsonian agent.

**Purity:** >98%

**Clinical Data:** No Development Reported

**Size:** 1 mg, 5 mg, 10 mg

---

Prazosin hydrochloride  
**Cat. No.: HY-B0193A**

**Bioactivity:** Prazosin is an alpha-adrenergic blocker and is a sympatholytic drug used to treat high blood pressure and anxiety, PTSD, and panic disorder.

**Purity:** 99.73%

**Clinical Data:** No Development Reported

**Size:** 10 mg

---

Prazosin  
**Cat. No.: HY-B0193**

**Bioactivity:** Prazosin is an alpha-adrenergic blocker and is a sympatholytic drug used to treat high blood pressure and anxiety, PTSD, and panic disorder.

**Purity:** >98%

**Clinical Data:** Launched

**Size:** 10 mg

---

Propranolol hydrochloride  
**Cat. No.: HY-B0573**

**Bioactivity:** Propranolol hydrochloride is a nonselective $\beta$-adrenergic receptor (BAR) antagonist with an $IC_{50}$ of 12 nM.

**Purity:** 99.92%

**Clinical Data:** Launched

**Size:** 10mM x 1mL in DMSO, 10 mg, 50 mg, 100 mg, 200 mg

---

QF0301B  
**Cat. No.: HY-101690**

**Bioactivity:** QF0301B is an $\alpha_1$ adrenergic receptor antagonist and a low $\alpha_2$ adrenoceptor, 5-HT2A, and histamine H1 receptor blocker.

**Purity:** >98%

**Clinical Data:** No Development Reported

**Size:** 1 mg, 5 mg, 10 mg, 20 mg

---

Rauwolscine hydrochloride ($\alpha$-Yohimbine hydrochloride; Corynanthidine hydrochloride; Isoyohimbine hydrochloride)  
**Cat. No.: HY-12710A**

**Bioactivity:** Rauwolscine hydrochloride is a potent and specific $\alpha_2$ adrenergic receptor antagonist with a $K_i$ of 12 nM.

**Purity:** 99.16%

**Clinical Data:** Launched

**Size:** 10mM x 1mL in DMSO, 50 mg, 100 mg

---

Rotigotine  
**Cat. No.: HY-75502**

**Bioactivity:** Rotigotine is a full agonist of **dopamine receptor**, a partial agonist of the **5-HT1A receptor**, and an antagonist of the **$\alpha_2B$-adrenergic receptor**, with $K_i$ of 0.71nM, 4-15nM, and 83nM for the dopamine D3 receptor and D2, D5, D4 receptors, and dopamine D1 receptor.

**Purity:** 99.98%

**Clinical Data:** Launched

**Size:** 10mM x 1mL in DMSO, 10 mg, 50 mg, 100 mg

---

www.MedChemExpress.com
<table>
<thead>
<tr>
<th>Compound</th>
<th>Cat. No.</th>
<th>Bioactivity</th>
<th>Purity</th>
<th>Clinical Data</th>
<th>Size</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>RS 17053 hydrochloride</strong></td>
<td>HY-101336</td>
<td>RS 17053 hydrochloride is a potent and selective $\alpha_1$ adrenoceptor antagonist, with a $pK_I$ value of 9.1 in native cell membrane and a $pA_2$ value of 9.8 in functional assays.</td>
<td>99.25%</td>
<td>No Development Reported</td>
<td>10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg</td>
</tr>
<tr>
<td><strong>Salbutamol</strong> (Albuterol; AH-3365)</td>
<td>HY-B1037</td>
<td>Salbutamol is a short-acting $\beta_2$-adrenergic receptor agonist used for the relief of bronchospasm in conditions such as asthma and chronic obstructive pulmonary disease (COPD).</td>
<td>&gt;98%</td>
<td>Launched</td>
<td>10 mg, 50 mg, 100 mg</td>
</tr>
<tr>
<td><strong>Salbutamol hemisulfate</strong></td>
<td>HY-B0436</td>
<td>Salbutamol Hemisulfate is a short-acting $\beta_2$ adrenergic receptor agonist used in the treatment of asthma and COPD. All the effects of R,S-salbutamol on guinea-pig skeletal muscles are due to the...</td>
<td>98.0%</td>
<td>Launched</td>
<td>10mM x 1mL in Water, 100 mg, 500 mg</td>
</tr>
<tr>
<td><strong>Salmeterol</strong> (GR33343X)</td>
<td>HY-14302</td>
<td>Salmeterol is a long-acting beta2-adrenergic receptor (beta 2AR) agonist used clinically to treat asthma.</td>
<td>99.68%</td>
<td>Launched</td>
<td>10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg</td>
</tr>
<tr>
<td><strong>Scopine</strong> (6,7-Epoxytropine)</td>
<td>HY-B0459</td>
<td>Scopine is the metabolite of anisodine, which is a $\alpha_1$-adrenergic receptor agonist and used in the treatment of acute circulatory shock.</td>
<td>&gt;98%</td>
<td>No Development Reported</td>
<td>10 mg, 50 mg, 100 mg</td>
</tr>
<tr>
<td><strong>Scopine hydrochloride</strong></td>
<td>HY-B0459A</td>
<td>Scopine hydrochloride is the metabolite of anisodine, which is a $\alpha_1$-adrenergic receptor agonist and used in the treatment of acute circulatory shock.</td>
<td>98.0%</td>
<td>No Development Reported</td>
<td>10mM x 1mL in DMSO, 10 mg, 50 mg, 100 mg</td>
</tr>
<tr>
<td><strong>Solabegron</strong> (GW 427353)</td>
<td>HY-19436</td>
<td>Solabegron (GW 427353) is a selective $\beta_3$-adrenergic receptor agonist, stimulating cAMP accumulation in Chinese hamster ovary cells expressing the human $\beta_3$ AR, with an EC$_{50}$ value of 22 nM $^{[1]}$. It is being developed for the treatment...</td>
<td>&gt;98%</td>
<td>No Development Reported</td>
<td>5 mg, 10 mg</td>
</tr>
<tr>
<td><strong>Sotalol hydrochloride</strong></td>
<td>HY-B0437</td>
<td>Sotalol Hydrochloride is an adrenergic beta-antagonist that is used in the treatment of life-threatening arrhythmias. Target: Adrenergic Receptor Sotalol is a non-selective competitive $\beta$-adrenergic receptor blocker that also exhibits Class III antiarrhythmic properties by its inhibition of potassium...</td>
<td>99.77%</td>
<td>Launched</td>
<td>10mM x 1mL in DMSO, 50 mg, 100 mg, 200 mg, 500 mg, 1 g</td>
</tr>
</tbody>
</table>
**Spirendolol**  
(Li 32-468; S 32-468; Substance 32468)  
Cat. No.: HY-101817

**Bioactivity:** Spirendolol is a β adrenergic receptor antagonist.

**Purity:** >98%  
**Clinical Data:** No Development Report  
**Size:** 1 mg, 5 mg, 10 mg, 20 mg

---

**Synephrine hydrochloride**  
(Oxedrine hydrochloride)  
Cat. No.: HY-N0132A

**Bioactivity:** Synephrine HCl(Oxedrine) is an alkaloid; synephrine produces most of its biological effects by acting as an agonist at adrenergic receptors.

**Purity:** 99.83%  
**Clinical Data:** No Development Reported  
**Size:** 10mM x 1mL in Water, 100 mg, 500 mg

---

**Talipexole dihydrochloride**  
(B-HT 920)  
Cat. No.: HY-A0008

**Bioactivity:** Talipexole dihydrochloride (B-HT 920) is a dopamine D2 receptor agonist, α2-adrenoceptor agonist and 5-HT3 receptor antagonist, which displays anti-Parkinsonian activity.

**Purity:** 99.99%  
**Clinical Data:** Launched  
**Size:** 10mM x 1mL in DMSO, 10 mg, 50 mg, 100 mg

---

**Teodatoxetine hydrobromide**  
(Lu AA 24530 hydrobromide)  
Cat. No.: HY-101755

**Bioactivity:** Teodatoxetine hydrobromide acts as a triple reuptake inhibitor and 5-HT2A, 5-HT2C, 5-HT3 and α1A-adrenergic receptor antagonist.

**Purity:** >98%  
**Clinical Data:** No Development Reported  
**Size:** 1 mg, 5 mg, 10 mg, 20 mg

---

**Teoprolol**  
Cat. No.: HY-U00016

**Bioactivity:** Teoprolol is a β-adrenergic receptor blocker.

**Purity:** >98%  
**Clinical Data:** No Development Reported  
**Size:** 1 mg, 5 mg, 10 mg, 20 mg

---

**Terazosin**  
Cat. No.: HY-80371

**Bioactivity:** Terazosin is a selective alpha1-antagonist used for treatment of symptoms of benign prostatic hyperplasia (BPH).

**Purity:** >98%  
**Clinical Data:** Launched  
**Size:** 100 mg, 500 mg

---

**Terazosin hydrochloride dihydrate**  
Cat. No.: HY-80371A

**Bioactivity:** Terazosin Hydrochloride dihydrate is a selective alpha1-antagonist used for treatment of symptoms of benign prostatic hyperplasia (BPH).

**Purity:** 99.85%  
**Clinical Data:** Launched  
**Size:** 10mM x 1mL in DMSO, 100 mg

---

**Terbutaline sulfate**  
(Terbutaline hemisulfate)  
Cat. No.: HY-80802

**Bioactivity:** Terbutaline sulfate is a β2-adrenergic receptor agonist; a fast-acting bronchodilator and a tocolytic to delay premature labor.

**Purity:** 98.0%  
**Clinical Data:** Launched  
**Size:** 10mM x 1mL in Water, 1 g, 5 g

---

**Tertatolol**  
((±)-Tertatolol; Racemic Tertatolol; dl-Tertatolol)  
Cat. No.: HY-U00356

**Bioactivity:** Tertatolol is a potent antagonist of beta-adrenoceptor and 5-HT receptor, with unique renal vasodilatory effects.

**Purity:** >98%  
**Clinical Data:** No Development Reported  
**Size:** 1 mg, 5 mg, 10 mg, 20 mg
Tetrahydrozoline hydrochloride  
(Tetryzoline hydrochloride)  
Cat. No.: HY-B0556A

**Bioactivity:** Tetrahydrozoline (hydrochloride) is a α-adrenoceptor agonist.

**Purity:** >98%
**Clinical Data:** Launched
**Size:** 10mM x 1mL in DMSO, 1 g, 5 g

---

Tiodazosin  
(BL-5111)  
Cat. No.: HY-100255

**Bioactivity:** Tiodazosin is a potent competitive postsynaptic alpha adrenergic receptor antagonist.

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

---

Tizanidine  
Cat. No.: HY-80194

**Bioactivity:** Tizanidine is an α2-adrenergic receptor agonist and inhibits neurotransmitter release from CNS noradrenergic neurons.

**Purity:** >98%
**Clinical Data:** Launched
**Size:** 10 mg, 50 mg, 100 mg

---

Tolazoline  
(Imidaline; NSC35110)  
Cat. No.: HY-A0066

**Bioactivity:** Tolazoline(Imidaline) is a non-selective competitive α-adrenergic receptor antagonist.

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

---

Tolazoline hydrochloride  
(Imidaine (hydrochloride); NSC35110 (hydrochloride))  
Cat. No.: HY-A0066A

**Bioactivity:** Tolazoline (hydrochloride)(Imidaine (hydrochloride)) HCl is a non-selective competitive α-adrenergic receptor antagonist. IC50 value: Target: α-adrenoceptor antagonist Tolazoline can be synthesized by the heterocyclation of the ethyl ester of iminophenylacetic acid with ethylene diamine, which forms the...

**Purity:** 99.0%
**Clinical Data:** Launched
**Size:** 10mM x 1mL in DMSO, 1 g, 5 g

---

Tropodifene  
(Tropaphen)  
Cat. No.: HY-U00313

**Bioactivity:** Tropodifene (Tropaphen) is an α-Adrenergic receptor inhibitor.

**Purity:** >98%
**Clinical Data:** No Development Reported
**Size:** 1 mg, 5 mg, 10 mg, 20 mg

---

Tulobuterol hydrochloride  
Cat. No.: HY-W011733

**Bioactivity:** Tulobuterol hydrochloride is a β2-adrenoceptor agonist.

**Purity:** 99.82%
**Clinical Data:** Launched
**Size:** 10mM x 1mL in DMSO, 50 mg, 100 mg, 500 mg

---

Urapidil  
Cat. No.: HY-B0716

**Bioactivity:** Urapidil is an α1 adrenoreceptor antagonist and a 5-HT1A receptor agonist.

**Purity:** 99.89%
**Clinical Data:** No Development Reported
**Size:** 50 mg

---

Urapidil hydrochloride  
Cat. No.: HY-80354A

**Bioactivity:** Urapidil HCl is an α1-adrenoceptor antagonist and 5-HT1A receptor agonist.

**Purity:** >98%
**Clinical Data:** Launched
**Size:** 100 mg, 500 mg

---

Tel: 609-228-6898   Fax: 609-228-5909   Email: sales@MedChemExpress.com
Vanilpyruvic acid
(Vanlypyruvic acid)
Cat. No.: HY-101416

Bioactivity: Vanilpyruvic acid is a catecholamine metabolite and precursor to vanillactic acid.

Purity: 98.0%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 10 mg

Vatinoxan hydrochloride
(MK-467 hydrochloride; L-659066 hydrochloride)
Cat. No.: HY-19057A

Bioactivity: Vatinoxan hydrochloride (MK-467 hydrochloride; L-659066 hydrochloride) is a peripheral α2 adrenergic receptor antagonist.

Purity: 99.25%
Clinical Data: No Development Reported
Size: 10mM x 1mL in Water, 5 mg, 10 mg, 25 mg

Vilanterol
(GW642444X; GW642444)
Cat. No.: HY-14300

Bioactivity: Vilanterol is a long-acting β2-adrenoceptor (β2-AR) agonist with 24 h activity. The pEC50 for β2-AR, β1-AR and β3-AR is 10.37±0.05, 6.98±0.03 and 7.36±0.03, respectively.

Purity: 95.06%
Clinical Data: Launched
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg

Vilanterol trifenate
(GW642444M)
Cat. No.: HY-14300A

Bioactivity: Vilanterol trifenate is a long-acting β2-adrenoceptor (β2-AR) agonist with inherent 24-hour activity. The pEC50 for β2-AR, β1-AR and β3-AR are 10.37, 6.98 and 7.36, respectively.

Purity: 99.02%
Clinical Data: Launched
Size: 10mM x 1mL in DMSO, 5 mg, 10 mg, 50 mg, 100 mg

Xylazine
(BAY 1470)
Cat. No.: HY-80443

Bioactivity: Xylazine is α2 class of adrenergic receptor agonist.

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

Xylazine hydrochloride
(BAY 1470 hydrochloride)
Cat. No.: HY-80443A

Bioactivity: Xylazine Hydrochloride is α2 class of adrenergic receptor agonist.

Purity: 99.90%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO, 100 mg, 500 mg

Xylometazoline hydrochloride
Cat. No.: HY-80475

Bioactivity: Xylometazoline Hydrochloride is an α-adrenoceptor agonist commonly used as nasal decongestant.

Purity: 99.88%
Clinical Data: Launched
Size: 10mM x 1mL in DMSO, 1 g

Yohimbine
Cat. No.: HY-12715

Bioactivity: Yohimbine is a potent and relatively nonselective alpha 2-adrenergic receptor (AR) antagonist, with IC50 of 0.6 μM. IC50 value: 0.6 uM [1] Target: alpha 2-adrenergic receptor in vitro: Yohimbine inhibits alpha2-receptor antagonist with Ki of 1.05 nM, 1.19 nM, and 1.19 nM for α2A, α2B, α2C, ...

Purity: >98%
Clinical Data: Phase 4
Size: 1 g

Yohimbine Hydrochloride
Cat. No.: HY-N0127

Bioactivity: Yohimbine hydrochloride is an alpha 2-adrenoceptor antagonist, blocking the pre- and postsynaptic alpha-2 adrenoceptors and causing an increased release of noradrenaline and dopamine. IC50 value: Target: In vitro: In vivo: Yohimbine hydrochloride (0.2 mg/kg, i.p.) was...

Purity: 99.85%
Clinical Data: Phase 4
Size: 10mM x 1mL in DMSO, 1 g

ZK-90055 hydrochloride
Cat. No.: HY-U00293

Bioactivity: ZK-90055 hydrochloride is a β2 adrenergic receptor agonist.

Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg, 10 mg, 20 mg
<table>
<thead>
<tr>
<th><strong>α1 adrenoceptor-MO-1</strong></th>
<th><strong>β3-AR agonist 2</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Bioactivity:</strong></td>
<td><strong>Bioactivity:</strong></td>
</tr>
<tr>
<td>α1 adrenoceptor-MO-1, an S enantiomer, has affinity at <strong>α1 adrenergic receptor</strong>, shows alphalytic activity, and possesses analgesic action; more active than R enantiomer.</td>
<td>β3-AR agonist 2 is a potent and selective <strong>β3-adrenergic receptor</strong> (β3-AR) agonist with an <strong>EC50</strong> of 8 nM.</td>
</tr>
<tr>
<td><strong>Purity:</strong></td>
<td><strong>Purity:</strong></td>
</tr>
<tr>
<td>&gt;98%</td>
<td>&gt;98%</td>
</tr>
<tr>
<td><strong>Clinical Data:</strong></td>
<td><strong>Clinical Data:</strong></td>
</tr>
<tr>
<td>No Development Reported</td>
<td>No Development Reported</td>
</tr>
<tr>
<td><strong>Size:</strong></td>
<td><strong>Size:</strong></td>
</tr>
<tr>
<td>1 mg, 5 mg, 10 mg, 20 mg</td>
<td>500 mg, 250 mg</td>
</tr>
</tbody>
</table>

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