Dopamine Transporter

DAT; SLC6A3

Dopamine Transporter (DAT) is an integral membrane protein that removes dopamine from the synaptic cleft and deposits it into surrounding cells, thus terminating the signal of the neurotransmitter. Dopamine transporter (DAT) controls the spatial and temporal dynamics of dopamine (DA) neurotransmission by driving reuptake of extracellular transmitter into presynaptic neurons. Many diseases such as depression, bipolar disorder, Parkinson's disease, and attention deficit hyperactivity disorder are associated with abnormal DA levels, implicating DAT as a factor in their etiology. Medications used to treat these disorders and many addictive drugs target DAT and enhance dopaminergic signaling by suppressing transmitter reuptake. DAT is regulated by multiple signaling systems, with PKC and ERK being two of the most well-characterized.

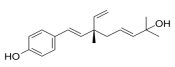
Dopamine Transporter Inhibitors & Activators

13-Hydroxyisobakuchiol

(Delta3,2-Hydroxylbakuchiol)

Cat. No.: HY-N7506

Hydroxyisobakuchiol (Delta3,2-Hydroxylbakuchiol), an analog of Bakuchiol (HY-N0235) isolated from Psoralea corylifolia (L.), is a potent **monoamine transporter** inhibitor.

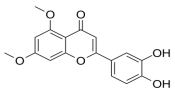


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

5,7-Dimethoxyluteolin

Cat. No.: HY-111928

5,7-Dimethoxyluteolin, a 5,7-dimethylluteolin derivative, is a **dopamine transporter (DAT)** activator with an EC_{50} of 3.417 μM.



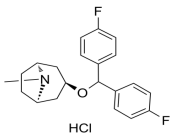
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg

AHN 1-055 hydrochloride

(3α-Bis-(4-fluorophenyl) Methoxytropane hydrochloride)

Cat. No.: HY-101315

AHN 1-055 hydrochloride is a **dopamine uptake** inhibitor, with an IC_{50} of 71 nM. AHN 1-055 hydrochloride binds with high affinity to the **dopamine transporter (DAT)** and may serve as leads for the development of agentia to treat cocaine abuse.



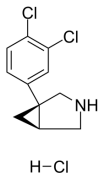
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Amitifadine hydrochloride

(DOV-21947 hydrochloride; EB-1010 hydrochloride)

Cat. No.: HY-18332A

Amitifadine hydrochloride is a serotonin-norepinephrine-dopamine reuptake inhibitor **(SNDRI)**, with IC_{50}**s** of 12, 23, 96 nM for serotonin, norepinephrine and dopamine in HEK 293 cells , respectively.



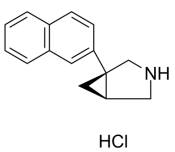
Purity: 99.92%
Clinical Data: Phase 3
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg

Centanafadine hydrochloride

(EB-1020 hydrochloride)

Cat. No.: HY-16736A

Centanafadine (hydrochloride) is dual **norepinephrine (NE)/dopamine (DA)** transporter inhibitor, also inhibits serotonin transporter, with IC_{50}**s** of 6 nM, 38 nM and 83 nM for human NE, DA and serotonin transporter , respectively.



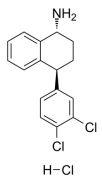
Purity: 99.93%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg, 100 mg

Dasotraline hydrochloride

(SEP-225289 hydrochloride)

Cat. No.: HY-12850A

Dasotraline hydrochloride (SEP-225289 hydrochloride) is a triple reuptake inhibitor that blocks **dopamine**, **norepinephrine**, and **serotonin** transporters with IC_{50} values of 4, 6, and 11 nM, respectively.

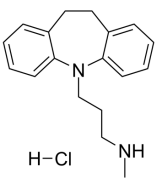


Purity: 99.55%
Clinical Data: Phase 3
Size: 10 mM × 1 mL, 1 mg, 5 mg, 10 mg, 25 mg, 50 mg

Desipramine hydrochloride

Cat. No.: HY-B1272

Desipramine hydrochloride is an inhibitor of **norepinephrine transporter** (**NET**), **5-HT transporter** (**SERT**) and **dopamine transporter** (**DAT**) with K_is of 4, 61 and 78,720 nM, respectively.



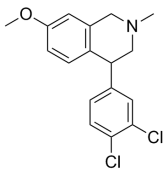
Purity: 99.68%
Clinical Data: Launched
Size: 10 mM × 1 mL, 100 mg, 500 mg

Diclofensine

(Ro 8-4650)

Cat. No.: HY-18610A

Diclofensine(Ro-8-4650) is a potent inhibitor of monoamine reuptake, blocking the uptake of dopamine, noradrenaline, and serotonin by rat brain synaptosomes with IC50 values of 0.74, 2.3, and 3.7 nM, respectively.



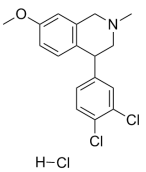
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Diclofensine hydrochloride

(Ro 8-4650 hydrochloride)

Cat. No.: HY-18610

Diclofensine hydrochloride (Ro-8-4650 hydrochloride) is a potent inhibitor of monoamine reuptake, blocking the uptake of dopamine, noradrenaline, and serotonin by rat brain synaptosomes with IC50 values of 0.74, 2.3, and 3.7 nM, respectively.

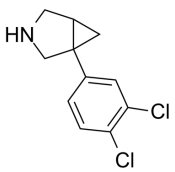


Purity: 96.44%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg

DOV-216,303 Free Base

Cat. No.: HY-18332C

DOV-216,303 (Free Base) is a potent triple **serotonin**, norepinephrine, and **dopamine reuptake** inhibitor, with IC_{50} values of 14 nM, 20 nM and 78 nM for hSERT, hNET and hDAT, respectively.



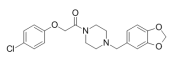
Purity: 98.47%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 5 mg

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

Fipexide

Cat. No.: HY-B1124

Fipexide, a parachloro-phenossiacetic acid derivative, is a nootropic drug. Fipexide reduces striatal **adenylate cyclase** activity. Fipexide has positive effect on cognitive performance by **dopaminergic** neurotransmission. Fipexide is used for senile dementia research.

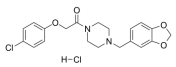


Purity: 99.99%
Clinical Data: Launched
Size: 10 mM × 1 mL, 100 mg

Fipexide hydrochloride

Cat. No.: HY-B1124A

Fipexide hydrochloride, a parachloro-phenossiacetic acid derivative, is a nootropic drug. Fipexide hydrochloride reduces striatal **adenylate cyclase** activity.

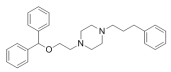


Purity: >98%
Clinical Data: Launched
Size: 1 mg, 5 mg

GBR 12935

Cat. No.: HY-12242A

GBR 12935 is a potent, and selective dopamine reuptake inhibitor. IC50 value: Target: dopamine reuptake inhibitor in vitro: The calculated Kd of [3H]GBR-12935 binding to CYP2D6 was 42.2 nM, indicating that GBR-12935 has a high affinity for CYP2D6.

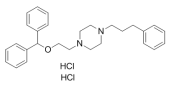


Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

GBR 12935 dihydrochloride

Cat. No.: HY-12242

GBR 12935 dihydrochloride is a potent, and selective dopamine reuptake inhibitor. IC50 value: Target: dopamine reuptake inhibitor in vitro: The calculated Kd of [3H]GBR-12935 binding to CYP2D6 was 42.2 nM, indicating that GBR-12935 has a high affinity for CYP2D6.

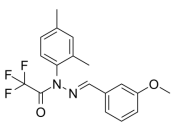


Purity: 99.27%
Clinical Data: No Development Reported
Size: 10 mM × 1 mL, 10 mg, 50 mg, 100 mg

J-147

Cat. No.: HY-13779

J-147 is an exceptionally potent, orally active, neuroprotective agent for cognitive enhancement. J-147 can readily pass the blood brain barrier (BBB).

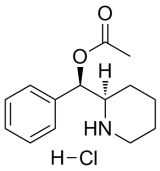


Purity: 99.90%
Clinical Data: Phase 1
Size: 10 mM × 1 mL, 5 mg, 10 mg, 50 mg

Levophacetoperane hydrochloride

Cat. No.: HY-101631

Levophacetoperane inhibits in vitro in a competitive manner, **norepinephrin** uptake and **dopamine** uptake.

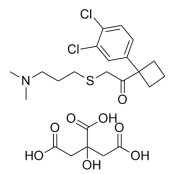


Purity: >98%
Clinical Data: Launched
Size: 1 mg, 5 mg

SPD-473 citrate

Cat. No.: HY-101612

SPD-473 citrate is a **serotonin/dopamine/norepinephrine** reuptake inhibitior.



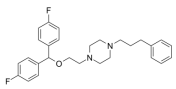
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg

Vanoxerine

(GBR 12909; I893)

Cat. No.: HY-13217A

Vanoxerine (GBR-12909) is a competitive, potent, and highly selective **dopamine reuptake** inhibitor (K_i=1 nM). Vanoxerine (GBR-12909) binds to the target site on the dopamine transporter (DAT).



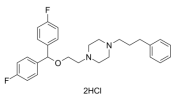
Purity: >98%
Clinical Data: Phase 3
Size: 1 mg, 5 mg

Vanoxerine dihydrochloride

(GBR-12909 dihydrochloride; I893 dihydrochloride)

Cat. No.: HY-13217

Vanoxerine dihydrochloride (GBR-12909 dihydrochloride) is a competitive, potent, and highly selective **dopamine reuptake** inhibitor (K_i=1 nM). Vanoxerine dihydrochloride (GBR-12909 dihydrochloride) binds to the target site on the dopamine transporter (DAT).



Purity: 99.52%
Clinical Data: Phase 3
Size: 10 mM × 1 mL, 10 mg, 50 mg