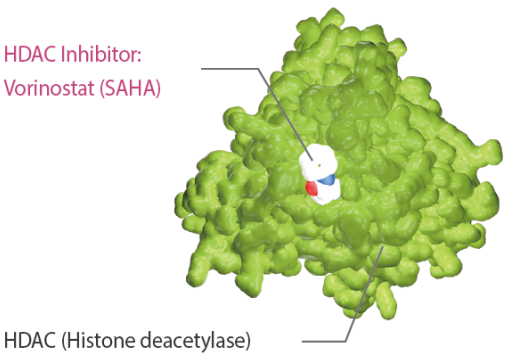
Dopamine Transporter

DAT;SLC6A3



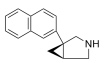
Dopamine Transporter (DAT) is an integral membrane protein that removes dopamine from the synaptic cleft and deposits it into surrounding cells, thus terminating the signal of the neurotransmitter. Dopamine transporter (DAT) controls the spatial and temporal dynamics of dopamine (DA) neurotransmission 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 & Modulators

Centanafadine
(EB-1020) Cat. No.: HY-16736

Bioactivity: Centanafadine 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.

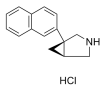
Purity: >98%
Clinical Data: No Development Reported
Size: 250 mg, 500 mg



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 **IC_{50}s** of 6 nM, 38 nM and 83 nM for human NE, DA and serotonin transporter , respectively.

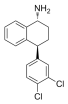
Purity: >98%
Clinical Data: No Development Reported
Size: 250 mg, 500 mg



Dasotraline
(SEP 225289) Cat. No.: HY-12850

Bioactivity: Dasotraline is a triple reuptake inhibitor that blocks **dopamine**, **norepinephrine**, and **serotonin** transporters with **IC_{50}** values of 4, 6, and 11 nM, respectively.

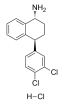
Purity: >98%
Clinical Data: No Development Reported
Size: 1 mg, 5 mg, 10 mg, 25 mg, 50 mg



Dasotraline hydrochloride
(SEP-225289 hydrochloride) Cat. No.: HY-12850A

Bioactivity: 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.

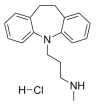
Purity: 99.60%
Clinical Data: Phase 3
Size: 10mM x 1mL in DMSO,
1 mg, 5 mg, 10 mg, 25 mg, 50 mg



Desipramine hydrochloride
Cat. No.: HY-B1272

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

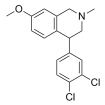
Purity: 99.68%
Clinical Data: Launched
Size: 10mM x 1mL in DMSO,
100 mg, 500 mg



Diclofensine
(Ro 8-4650) Cat. No.: HY-18610A

Bioactivity: 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.

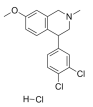
Purity: >98%
Clinical Data: No Development Reported
Size: 5 mg, 10 mg, 50 mg



Diclofensine hydrochloride
(Ro 8-4650 hydrochloride) Cat. No.: HY-18610

Bioactivity: 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.

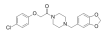
Purity: 96.44%
Clinical Data: No Development Reported
Size: 10mM x 1mL in Water,
5 mg, 10 mg, 50 mg



Fipexide
Cat. No.: HY-B1124

Bioactivity: Fipexide is a psychoactive drug of the piperazine chemical class, used as a nootropic drug, mainly for the treatment of senile dementia.

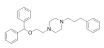
Purity: 99.87%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO,
100 mg



GBR 12935
Cat. No.: HY-12242A

Bioactivity: 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. The binding of [3H]GBR-12935 to CYP2D6 was decreased...

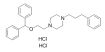
Purity: >98%
Clinical Data: No Development Reported
Size: 10 mg, 50 mg, 100 mg



GBR 12935 dihydrochloride
Cat. No.: HY-12242

Bioactivity: GBR 12935 2Hcl is a potent, and selective dopamine reuptake inhibitor.

Purity: 98.90%
Clinical Data: No Development Reported
Size: 10mM x 1mL in DMSO,
10 mg, 50 mg, 100 mg



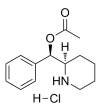
Tel: 609-228-6898 Fax: 609-228-5909 Email: sales@MedChemExpress.com

Levophacetoperane hydrochloride

Cat. No.: HY-101631

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

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

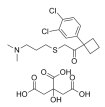


SPD-473 citrate

Cat. No.: HY-101612

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

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



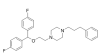
Vanoxerine

(GBR 12909; I893)

Cat. No.: HY-13217A

Bioactivity: Vanoxerine (GBR12909) is a potent and selective DRI (Dopamine reuptake inhibitor).

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



Vanoxerine dihydrochloride

(GBR-12909 dihydrochloride; I893 dihydrochloride)

Cat. No.: HY-13217

Bioactivity: Vanoxerine dihydrochloride is a potent and selective **dopamine reuptake** inhibitor.

Purity: 99.64%
Clinical Data: Phase 3
Size: 10mM x 1mL in DMSO, 10 mg, 50 mg