Dopamine Receptor Inhibitors
(inhibitors, agonists and modulators)

Dopamine is a naturally occurring chemical in the body that functions as a neurotransmitter and neurohormone. It primarily affects movement control, emotions and the pleasure and reward centers of the brain. It activates five dopamine receptors, D1 through D5, which are found throughout the brain and body. The receptors are classified into either the D1-like receptor family or the D2-like receptor family, based upon morphological, pharmaceutical and functional properties.
Paliperidone - CAS 144598-75-4
Catalog Number: B0084-051542       Price: $198/500 mg
Molecular Weight: 426.48            Molecular Formula: C23H27FN4O3
Description: Paliperidone is an atypical antipsychotic.

N 0924 hydrochloride - CAS 125572-92-1
Catalog Number: B0084-056508        Price: $399/50 mg
Molecular Weight: 351.93             Molecular Formula: C19H25NOS.HCl
Description: N 0924 hydrochloride is a dopamine (DA) receptor agonist that is the less active enantiomer of N-0437 in comparison with the opposite (S)-(−)-enantiomer, Rotigotine.

Dexpramipexole - CAS 104632-28-2
Catalog Number: B0084-241567        Price: $198/50 mg
Molecular Weight: 284.25             Molecular Formula: C10H17N3S
Description: Dexpramipexole, also known as R−(+)-Pramipexole, is one of the impurities of pramipexole (USP D). It could be used as a negative control in the research of dopamine receptors for the (S) form. It was also found to be a potential neuroprotective agent and p

Cariprazine - CAS 839712-12-8
Catalog Number: B0084-459781         Price: $298/25 mg
Molecular Weight: 427.41             Molecular Formula: C21H32Cl2N4O
Description: Cariprazine is an orally active D2/D3 dopamine receptor antagonist exhibits high selectivity and affinity to dopamine D3 (Ki=0.09 nM) and D2 (Ki=0.5 nM) receptors and moderate affinity to serotonin 5-HT(1A) receptors.

Tetrahydropalmatine - CAS 2934-97-6
Catalog Number: B0084-474737         Price: $229/5 g
Molecular Weight: 355.434            Molecular Formula: C21H25NO4
Description: Tetrahydropalmatine is isolated from the Chinese herb corydalis and acts as a striatal dopamine D2 receptor antagonist in rats. Tetrahydropalmatine exhibits analgesic effect, and may be a potential treatment of heart disease, liver damage and certain drug addiction.
Brexpiprazole - CAS 913611-97-9
Catalog Number: B0084-474906  Price: $199/1 g
Molecular Weight: 433.58  Molecular Formula: C25H27N3O2S
Description: Brexpiprazole, a novel atypical antipsychotic drug, is a D2 dopamine partial agonist called serotonin-dopamine activity modulator (SDAM). It is approved for the treatment of schizophrenia, and as an adjunctive treatment for depression.

U91356 - CAS 152886-85-6
Catalog Number:
Molecular Weight: 231.29  Molecular Formula: C13H17N3O
Description: U91356 exhibits good dopaminergic agonist activity, and has improved metabolic stability and oral bioavailability in the rat and monkey.

Piperidine-MO-1 - CAS 871351-61-0
Catalog Number:
Molecular Weight: 321.84  Molecular Formula: C14H21ClFNO2S
Description: A modulator of dopamine receptor

Ro 10-5824 dihydrochloride - CAS 189744-94-3
Catalog Number:
Molecular Weight: 353.29  Molecular Formula: C17H22Cl2N4
Description: Ro 10-5824, a D4R partial agonist, might have beneficial effects on attention and impulsivity by modulating baseline gamma activity in the frontal cortex.
LE 300 - CAS 274694-98-3

**Catalog Number:**

**Molecular Weight:** 290.41  
**Molecular Formula:** C20H22N2

**Description:** LE 300 is a selective dopamine D1 receptor antagonist. It also displays moderate affinity for the 5-HT2A receptor.

Bifeprunox mesylate - CAS 350992-13-1

**Catalog Number:**

**Molecular Weight:** 481.56  
**Molecular Formula:** C24H23N3O2.CH4O3S

**Description:** Bifeprunox mesylate is a dopamine D2 and 5-HT1A partial agonist developed as an atypical antipsychotic for the treatment of schizophrenia and other psychotic indications.

5-Methoxy-2-aminotetraline hydrochloride - CAS 3880-88-4

**Catalog Number:**

**Molecular Weight:** 213.7  
**Molecular Formula:** C11H15NO.HCl

**Description:** 5-Methoxy-2-Aminotetraline hydrochloride is a dopamine receptor agonist.

Nemonapride - CAS 75272-39-8

**Catalog Number:**

**Molecular Weight:** 387.91  
**Molecular Formula:** C21H26ClN3O2

**Description:** Nemonapride, an atypical antipsychotic approved in Japan for the treatment of schizophrenia, is a highly potent dopamine D2-like receptor antagonist, which is selective over D1-like receptors (Ki= 0.1 and 740 nM for D2-like and D1-like receptors respectively). Nemonapride also binds sigma 1 (σ1) and σ2 receptors (Kis = 8.4 and 9.6 nM, respectively) and activates the serotonin 1A receptor (5-HT1A; IC50 = 34 nM).
(-)-Quinpirole hydrochloride - CAS 85798-08-9
Catalog Number:
Molecular Weight: 255.79  Molecular Formula: C13H21N3.HCl
Description: (-)-Quinpirole hydrochloride is a selective dopamine D2 receptor agonist, with high affinity for the D2 and D3 dopamine receptor subtypes (Ki values are 4.8, ~24, ~30 and 1900 nM at D2, D3, D4 and D1 receptors respectively).

CY 208-243 - CAS 100999-26-6
Catalog Number:
Molecular Weight: 274.36  Molecular Formula: C19H18N2
Description: CY 208-243 is a D1DR receptor agonist and has been found to show antiparkinsonian activity in animal models.

Cabergoline - CAS 81409-90-7
Catalog Number: 81409-90-7
Molecular Weight: 451.60  Molecular Formula: C26H37N5O2
Description: Cabergoline is a lysergic acid amide derivative and a potent dopamine D2 receptor agonist. It has been used for monotherapy of Parkinson’s disease in the early phase. It has a direct inhibitory effect on pituitary lactotroph (prolactin) cells. It acts on dopamine receptors in lactophiliic hypothalamus cells to suppress prolactin production in the pituitary gland.

Bromperidol - CAS 10457-90-6
Catalog Number: 10457-90-6
Molecular Weight: 420.32  Molecular Formula: C21H23BrFNO2
Description: Bromperidol, a derivative of butyrophenone, is an antipsychotic commonly used in the treatment of schizophrenia as it could bind to the D2 dopamine and 5-HT2A serotonin receptor.
(R)-(+)−5-Methoxy-2-aminotetraline hydrochloride - CAS 58349-1S-8

Catalog Number:
Molecular Weight: 213.7  Molecular Formula: C11H15NO.HCl
Description: (R)-(+)−5-Methoxy-2-Aminotetraline hydrochloride is a dopamine receptor agonist.

N 0432 hydrobromide - CAS 96333-05-0

Catalog Number:
Molecular Weight: 312.2  Molecular Formula: C14H17NO2.HBr
Description: N 0432 hydrobromide is a monoamine oxidase (MAO) inhibitor and a dopamine agonist.

(S)-PPHT hydrochloride - CAS 159795-62-7

Catalog Number:
Molecular Weight: 345.91  Molecular Formula: C21H27NO.HCl
Description: (S)-PPHT hydrochloride is a potent and selective D2 agonist.

(S)-5-Hydroxy-DPAT hydrobromide - CAS 182210-74-8

Catalog Number:
Molecular Weight: 328.29  Molecular Formula: C16H25NO.HBr
Description: A potent and selective dopamine (DA) D2 receptor agonist.

RU 24213 - CAS 67383-44-2

Catalog Number:
Molecular Weight: 319.87  Molecular Formula: C19H25NO.HCl
Description: RU 24213 is a dopamine D2 receptor agonist as well as a kappa opioid receptor antagonist.
**{(R)}-5-Hydroxy-DPAT hydrobromide - CAS 182210-73-7**

Catalog Number: 
Molecular Weight: 328.29  
Molecular Formula: C16H25NO.HBr  
Description: A weak dopamine D2 receptor antagonist.

**JNJ 37822681 dihydrochloride**

Catalog Number: 
Molecular Weight: 445.26  
Molecular Formula: C17H17F5N4.2HCl  
Description: JNJ 37822681 dihydrochloride is a potent and selective dopamine D2 receptor antagonist potentially used as an antipsychotic agent.

**{(R)}-{(+)}-7-Hydroxy-DPAT hydrobromide - CAS 1021878-34-1**

Catalog Number: 
Molecular Weight: 328.29  
Molecular Formula: C16H25NO.HBr  
Description: A dopamine D3 receptor agonist with more potent activity in comparison with (S)-(-)-7-OH-DPAT.

**Sonepiprazole hydrochloride - CAS 170857-36-0**

Catalog Number: 
Molecular Weight: 437.98  
Molecular Formula: C21H27N3O3S.HCl  
Description: Sonepiprazole hydrochloride is a selective dopamine D4 antagonist and displays low affinity for other dopamine receptors, noradrenalin, serotonin and histamine receptor families (Ki > 2000 nM).

**3-(Dipropylamino)-3,4-dihydro-2H-1-benzopyran-8-ol hydrochloride - CAS 109140-45-6**

Catalog Number: 
Molecular Weight: 285.81  
Molecular Formula: C15H23NO2.HCl  
Description: A dopamine receptor agonist.
<table>
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<tr>
<th>Chemical Name</th>
<th>Catalog Number</th>
<th>Molecular Weight</th>
<th>Molecular Formula</th>
<th>Description</th>
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<tr>
<td>6,7-Dihydroxy-N-methyl-N-propyl-aminotetraline hydrobromide - CAS 1246094-90-5</td>
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<td>C14H21NO2.HBr</td>
<td>6,7-Dihydroxy-N-methyl-N-propyl-aminotetraline hydrobromide is a dopamine receptor agonist.</td>
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<td>239.78</td>
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<td>N 0426 hydrochloride - CAS 150542-92-0</td>
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<td>C14H17NO.HCl</td>
<td>N 0426 hydrochloride is a dopamine receptor agonist.</td>
</tr>
<tr>
<td>R(-)-Norapomorphine hydrobromide - CAS 115017-61-3</td>
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<td>334.21</td>
<td>C16H15NO2.HBr</td>
<td>R(-)-Norapomorphine hydrobromide is a potent dopamine receptor agonist.</td>
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</tbody>
</table>
**TL 102 hydrobromide - CAS 62421-54-9**

Catalog Number: [Link to Catalog Number]
Molecular Weight: 344.29
Molecular Formula: C₁₆H₂₅NO₂.HBr
Description: TL 102 hydrobromide is a dopamine receptor agonist.

![TL 102 hydrobromide molecule](https://www.bocsci.com/)  

**TL 232 hydrobromide - CAS 62421-17-4**

Catalog Number: [Link to Catalog Number]
Molecular Weight: 344.29
Molecular Formula: C₁₆H₂₅NO₂.HBr
Description: TL 232 hydrobromide is a dopamine receptor agonist.

![TL 232 hydrobromide molecule](https://www.bocsci.com/)  

**(S)-6-Hydroxy-DPAT hydrobromide - CAS 162992-70-3**

Catalog Number: [Link to Catalog Number]
Molecular Weight: 328.29
Molecular Formula: C₁₆H₂₅NO.HBr
Description: A dopamine receptor agonist.

![6-Hydroxy-DPAT molecule](https://www.bocsci.com/)  

**N,N-Dipropyladopamine hydrobromide - CAS 65273-66-7**

Catalog Number: [Link to Catalog Number]
Molecular Weight: 318.25
Molecular Formula: C₁₄H₂₃NO₂.HBr
Description: A dopamine receptor agonist.

![N,N-Dipropyladopamine molecule](https://www.bocsci.com/)  

**Ecopipam - CAS 112108-01-7**

Catalog Number: 112108-01-7
Molecular Weight: 313.83
Molecular Formula: C₁₉H₂₀ClNO
Description: Ecopipam, a synthetic benzazepine derivative drug, acts as a selective dopamine D1/D5 receptor antagonist with little affinity for either dopamine D2-like or 5-HT2 receptors. It was developed by Schering plough. It is currently in clinical trials conducted by the biotechnology company Psyadon Pharmaceuticals for the treatment of Tourette syndrome in children.

![Ecopipam molecule](https://www.bocsci.com/)
**Odapipam - CAS 131796-63-9**

**Catalog Number:**

**Molecular Weight:** 329.82  
**Molecular Formula:** C19H20ClNO2  
**Description:** Odapipam is a potent dopamine D1 antagonist.

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**R(-)-N-Propylnorapomorphine hydrobromide - CAS 85199-01-5**

**Catalog Number:**

**Molecular Weight:** 376.29  
**Molecular Formula:** C19H21NO2.HBr  
**Description:** A potent and selective dopamine D2 receptor agonist.

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**R(-)-N-Ethylnorapomorphine hydrochloride - CAS 123240-93-7**

**Catalog Number:**

**Molecular Weight:** 362.26  
**Molecular Formula:** C18H19NO2.HBr  
**Description:** R(-)-N-Ethylnorapomorphine hydrochloride is a dopamine D2 receptor agonist.

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**UNC 9994 hydrochloride-CAS 1354030-51-5**

**Catalog Number:**

**Molecular Weight:** 457.84  
**Molecular Formula:** C21H22Cl2N2OS.HCl  
**Description:** UNC 9994 hydrochloride is a β-arrestin-biased functionally selective dopamine D2 receptor (D2R) agonist (Ki value 30 nM; EC50 value 50 nM in β-arrestin-2 recruitment assay) with antipsychotic activity in vivo.
5-Hydroxy-DPAT hydrobromide - CAS 71787-83-2
Catalog Number: 
**Molecular Weight:** 328.29  
**Molecular Formula:** C16H25NO.HBr  
**Description:** A potent and selective dopamine (DA) D2 receptor agonist developed as a PET agent.

B-HT 958 dihydrochloride - CAS 36085-44-6
Catalog Number: 
**Molecular Weight:** 366.74  
**Molecular Formula:** C14H16ClN3S.2HCl  
**Description:** B-HT 958 dihydrochloride is a dopamine D2 receptor agonist and an α2-adrenoceptor partial agonist.

ST 148 - CAS 390803-40-4
Catalog Number: 
**Molecular Weight:** 612.74  
**Molecular Formula:** C27H36N4O3S.C4H4O4  
**Description:** ST 148 is a dopamine D2 receptor antagonist.

NS 30678 hydrochloride - CAS 1193707-19-5
Catalog Number: 
**Molecular Weight:** 342.24  
**Molecular Formula:** C12H16ClNO4S.HCl  
**Description:** NS 30678 hydrochloride is a dopamine D2 receptor ligand with surmountable/competitive-like D2 antagonist properties (Ki = 9.7 nM, IC50 = 7 nM, in HEK-hD2L-Gαqi5 cells).

(S)-(-)-7-Hydroxy-DPAT hydrochloride - CAS 93503-07-2
Catalog Number: 
**Molecular Weight:** 283.84  
**Molecular Formula:** C16H25NO.HCl  
**Description:** A dopamine D3 receptor agonist that is less active compared to (R)-(+)−7-OH-DPAT.
### ST 198 - CAS 854924-64-4

**Catalog Number:**

**Molecular Weight:** 334.45  
**Molecular Formula:** C22H26N2O

**Description:** ST 198 is a dopamine D3 receptor antagonist.

### 6,7-Dimethoxy-2-aminotetraline hydrobromide - CAS 40069-26-9

**Catalog Number:**

**Molecular Weight:** 288.18  
**Molecular Formula:** C12H17NO2.HBr

**Description:** 6,7-Dimethoxy-2-Aminotetraline hydrobromide is a dopamine receptor agonist.

### (R)-7-Methoxy-2-aminotetraline hydrochloride - CAS 170638-05-8

**Catalog Number:**

**Molecular Weight:** 213.7  
**Molecular Formula:** C11H15NO.HCl

**Description:** (R)-7-Methoxy-2-Aminotetraline hydrochloride is a dopamine receptor agonist.

### Fluphenazine decanoate dihydrochloride - CAS 2376-65-0

**Catalog Number:**

**Molecular Weight:** 664.69  
**Molecular Formula:** C32H44F3N3O2S.2HCl

**Description:** Fluphenazine is a potent antipsychotic that acts by inhibiting dopamine receptors (Ki values 0.2 nM, 0.11 nM, and 2.0 nM for D2, D3, and 5-HT2 receptors, respectively).

### ACR 16 hydrochloride - CAS 882737-42-0

**Catalog Number:**

**Molecular Weight:** 317.87  
**Molecular Formula:** C15H23NO2S.HCl

**Description:** ACR 16 hydrochloride is a dopaminergic stabilizer (Ki values 17550 nM and 7521 for D2(low) and D2(high), respectively) that state-dependently stabilizes psychomotor activity by the dual actions of functional dopamine D2 receptor antagonism and strengthening of cortical glutamate functions in various settings of perturbed neurotransmission.
Chlorprothixene - CAS 113-59-7

**Catalog Number:** 113-59-7  
**Molecular Formula:** C18H18ClN5  
**Molecular Weight:** 315.86  
**Description:** Chlorprothixene has strong binding affinities to dopamine and histamine receptors, such as D1, D2, D3, H1, 5-HT2, 5-HT6 and 5-HT7, with Ki of 18 nM, 2.96 nM, 4.56 nM, 9 nM, 3.75 nM, 9.4 nM, 3 nM and 5.6 nM, respectively.

N 0430 hydrobromide - CAS 96333-04-9

**Catalog Number:**  
**Molecular Formula:** C14H17NO2.HBr  
**Molecular Weight:** 312.2  
**Description:** N 0430 hydrobromide is a monoamine oxidase (MAO) inhibitor and a dopamine agonist.

Dilept - CAS 200954-39-8

**Catalog Number:**  
**Molecular Formula:** C21H30N2O5  
**Molecular Weight:** 390.47  
**Description:** Dilept is an antagonist of neurotensin (NT) and dopamine (DA) receptor used to mitigate positive and negative symptoms of schizophrenia.

Trifluoperazine - CAS 117-89-5

**Catalog Number:** 117-89-5  
**Molecular Formula:** C21H24F3N3S  
**Molecular Weight:** 407.5  
**Description:** Trifluoperazine is a typical antipsychotic of the phenothiazine chemical class with anti-adrenergic and anti-dopaminergic actions just similar to Chlorpromazine. It is a Dopamine Receptor antagonist. The primary application of trifluoperazine is for schizophrenia but it also be used for other psychiatric disorders including severe anxiety and disturbed behaviours.

(R)-6-Hydroxy-DPAT hydrobromide - CAS 1246094-81-4

**Catalog Number:**  
**Molecular Formula:** C16H25NO.HBr  
**Molecular Weight:** 328.29  
**Description:** A dopamine receptor agonist.
3-[2-(Diproplyamino)ethyl]phenol hydrobromide - CAS 64656-40-2

Catalog Number: [3-2-(Diproplyamino)ethyl]phenol hydrobromide
Molecular Weight: 302.25
Molecular Formula: C14H23NO.HBr
Description: A dopamine receptor agonist.

6-Hydroxy-DPAT hydrobromide - CAS 76135-29-0

Catalog Number: 6-Hydroxy-DPAT hydrobromide
Molecular Weight: 328.29
Molecular Formula: C16H25NO.HBr
Description: A weak dopamine receptor agonist.

N,N-dibutyldopamine hydrobromide - CAS 65273-67-8

Catalog Number: N,N-dibutyldopamine hydrobromide
Molecular Weight: 346.3
Molecular Formula: C16H27NO2.HBr
Description: A dopamine receptor agonist.

Ziprasidone hydrochloride monohydrate - CAS 138982-67-9

Catalog Number: 138982-67-9
Molecular Weight: 467.419
Molecular Formula: C21H21ClN4OS.ClH.H2O
Description: The hydrochloride monohydrate salt form of Ziprasidone, a benzothiazol derivative, has been found to be a 5HT2A and D2 receptor antagonist that could be used against schizophrenia and other sorts of psychotic. pKi: 9.38 and 8.32 for 5-HT2A and D2 receptor
thiethylperazine - CAS 1420-55-9

Catalog Number: 1420-55-9
Molecular Weight: 399.62 Molecular Formula: C22H29N3S2
Description: Thiethylperazine is a dopamine receptor antagonist. It is an antiemetic of the phenothiazine class. Though it was never licensed or used as an antipsychotic, it may have such effects. It is useful in the treatment of nausea and vomiting associated with anesthesia, mildly emetic cancer chemotherapy agents, radiation therapy, and toxins.

Triflupromazine - CAS 146-54-3

Catalog Number: 146-54-3
Molecular Weight: 352.42 Molecular Formula: C18H19F3N2S
Description: Triflupromazine, a phenothiazin derivative, has been found to be a D2 dopamine receptor antagonist that could probably used as a tranquilizer and antipsychotic agent.

Azaperone - CAS 1649-18-9

Catalog Number: 1649-18-9
Molecular Weight: 327.4 Molecular Formula: C19H22FN3O
Description: Azaperone is a pyridinylpiperazine and butyrophenone neuroleptic drug with sedative and antiemetic effects, which is used mainly as a tranquilizer in veterinary medicine.

Lisuride - CAS 18016-80-3

Catalog Number: 18016-80-3
Molecular Weight: 338.45 Molecular Formula: C20H26N4O
Description: Lisuride, an indoloquinoline derivative, has been found to be a dopamine D2 receptor agonist and could probably be effective in antimigraine as well as antiparkinsonian studies.
### Fluspirilene - CAS 1841-19-6

**Catalog Number:** 1841-19-6  
**Molecular Weight:** 475.57  
**Molecular Formula:** C29H31F2N3O  
**Description:** Fluspirilene, with antipsychotic activity, is a non-competitive antagonist of agonist-activated L-type calcium channels (IC50 = 0.03 µM). Fluspirilene is also a dopamine inhibitor.

![Fluspirilene](https://www.bocsci.com/)

### Nomifensine - CAS 24526-64-5

**Catalog Number:** 24526-64-5  
**Molecular Weight:** 354.40  
**Molecular Formula:** C16H18N2.C4H4O4  
**Description:** Nomifensine, also called as Hoe 984 or Linamiphen, as a norepinephrine-dopamine reuptake inhibitor it is an antidepressant drug but due to increased incidence of hemolytic anemia, as well as kidney and liver toxicity it was withdrawn from the market.

![Nomifensine](https://www.bocsci.com/)

### Zotepine - CAS 26615-21-4

**Catalog Number:**  
**Molecular Weight:** 331.86  
**Molecular Formula:** C18H18ClNOS  
**Description:** Zotepine is a 5-HT2A receptor and dopamine D2 receptor antagonist (Ki = 0.69 and 2.3 nM, respectively) used as an atypical antipsychotic for the treatment of schizophrenia. Zotepine also exhibits an antagonistic effect at histamine H1 receptor (IC50 = 8.0 nM).

![Zotepine](https://www.bocsci.com/)

### Fipexide - CAS 34161-24-5

**Catalog Number:** 34161-24-5  
**Molecular Weight:** 388.85  
**Molecular Formula:** C20H21ClN2O4  
**Description:** Fipexide hydrochloride is a nootropic agent that displays a positive effect on cognitive function.
**Bromopride - CAS 4093-35-0**

**Catalog Number:** 4093-35-0  
**Molecular Weight:** 344.25  
**Molecular Formula:** C14H22BrN3O2  
**Description:** Bromopride is a dopamine antagonist with prokinetic properties, widely used as an antiemetic.

![Bromopride Molecular Structure](https://www.bocsci.com/)

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**Trifluoperazine Hydrochloride - CAS 440-17-5**

**Catalog Number:** 440-17-5  
**Molecular Weight:** 480.42  
**Molecular Formula:** C21H24F3N3S.2HCl  
**Description:** Trifluoperazine is a dopamine D2 receptor inhibitor with IC50 of 1.1 nM.

![Trifluoperazine Molecular Structure](https://www.bocsci.com/)

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**Promazine Hydrochloride - CAS 53-60-1**

**Catalog Number:** 53-60-1  
**Molecular Weight:** 320.88  
**Molecular Formula:** C17H20N2S.HCl  
**Description:** Promazine Hydrochloride is a phenothiazine used in short-term treatment of disturbed behavior and as an antiemetic.

![Promazine Molecular Structure](https://www.bocsci.com/)

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**Zuclopenthixol - CAS 53772-83-1**

**Catalog Number:** 53772-83-1  
**Molecular Weight:** 400.96  
**Molecular Formula:** C22H25ClN2OS  
**Description:** Zuclopenthixol is an antagonist at D1 and D2 dopamine receptors. It also has high affinity for alpha1-adrenergic and 5-HT2 receptors, but it has weaker histamine H1 receptor blocking activity, and even lower affinity for muscarinic cholinergic and alpha2-adrenergic receptors. It is the cis-isomer of clopenthixol.
**Droperidol - CAS 548-73-2**

**Catalog Number:** 548-73-2  
**Molecular Weight:** 379.43  
**Molecular Formula:** C22H22FN3O2  
**Description:** Droperidol is a potent antagonist of dopamine subtype 2 receptors in the limbic system.

![Droperidol molecule](https://www.bocsci.com/)

**Domperidone - CAS 57808-66-9**

**Catalog Number:** 57808-66-9  
**Molecular Weight:** 425.91  
**Molecular Formula:** C22H24ClN5O2  
**Description:** Domperidone is a medication developed by Janssen Pharmaceutica that acts as a peripherally-selective antagonist of the dopamine D2 and D3 receptors.

![Domperidone molecule](https://www.bocsci.com/)

**Pergolide Mesylate - CAS 66104-23-2**

**Catalog Number:** 66104-23-2  
**Molecular Weight:** 410.59  
**Molecular Formula:** C19H26N2S·CH4O3S  
**Description:** Pergolide Mesylate is an antiparkinsonian agent which functions as a dopaminergic agonist.

![Pergolide Mesylate molecule](https://www.bocsci.com/)

**Veralipride - CAS 66644-81-3**

**Catalog Number:**  
**Molecular Weight:** 383.46  
**Molecular Formula:** C17H25N3O5S  
**Description:** Veralipride is a D2 receptor antagonist in the hypothalamic system and has a half-life of approximately 12 hours. Veralipride is highly active on the neurotransmitters, producing both a weak blockade of the central postsynaptic dopaminergic receptors and particularly a strong blockade of the dopamine receptors in the hypothalamic nuclei.

![Veralipride molecule](https://www.bocsci.com/)
Fenoldopam Mesylate - CAS 67227-57-0

Catalog Number: 67227-57-0
Molecular Weight: 401.86
Molecular Formula: C17H20ClNO6S
Description: Fenoldopam is a selective D1 receptor partial agonist, binds to α2-adrenoceptors, increasing renal blood flow used as an antihypertensive agent.

Fluphenazine - CAS 69-23-8

Catalog Number: 69-23-8
Molecular Weight: 437.52
Molecular Formula: C22H26F3N3OS
Description: Fluphenazine, sold under the brand names Prolixin.

Molindone - CAS 7416-34-4

Catalog Number: 7416-34-4
Molecular Weight: 276.37
Molecular Formula: C16H24N2O2
Description: Molindone is dopamine D2 receptor antagonist which can be used in the treatment of schizophrenia. Molindone can block the effects of dopamine in the brain, leading to diminished psychoses.

Indatraline hydrochloride - CAS 96850-13-4

Catalog Number:
Molecular Weight: 328.67
Molecular Formula: C16H16Cl3N
Description: Indatraline hydrochloride is the hydrobromide salt of indatraline, which is a potent monoamine uptake inhibitor. It inhibits the synaptosomal uptake of noradrenaline, 3,4-dihydroxyphenylethylamine and 5-hydroxytryptamine with Ki values of 5.8, 1.7 and 0.42 nM respectively. It is centrally active following systemic administration in vivo.
**Prochlorperazine Dimaleate - CAS 84-02-6**

**Catalog Number:** 84-02-6  
**Molecular Weight:** 606.09  
**Molecular Formula:** C20H24ClN3S.C8H8O8  
**Description:** Prochlorperazine is a dopamine D2 receptor antagonist. It belongs to the phenothiazine class of antipsychotic agents and can be used for the antiemetic treatment of nausea and vertigo. Prochlorperazine is also used to treat migraine headaches.

**Ropinirole HCl - CAS 91374-20-8**

**Catalog Number:** 91374-20-8  
**Molecular Weight:** 296.84  
**Molecular Formula:** C16H24N2O·HCl  
**Description:** Ropinirole a selective D-2 agonist with Ki of 29 nM.

**Rotigotine - CAS 99755-59-6**

**Catalog Number:** 99755-59-6  
**Molecular Weight:** 315.47  
**Molecular Formula:** C19H25NOS  
**Description:** Rotigotine is a dopamine agonist of the non-ergoline class of medications indicated for the treatment of Parkinson's disease (PD) and Willis-Ekbom Disease.

**Ziprasidone Hydrochloride - CAS 122883-93-6**

**Catalog Number:** 122883-93-6  
**Molecular Weight:** 449.40  
**Molecular Formula:** C21H21ClN4OS.HCl  
**Description:** The hydrochloride salt form of Ziprasidone which is an antagonism of both serotonin and dopamine receptor and could be effective against schizophrenia.

**Sulpiride - CAS 15676-16-1**

**Catalog Number:** 15676-16-1  
**Molecular Weight:** 341.43  
**Molecular Formula:** C15H23N3O4S  
**Description:** Sulpiride, a D2 receptor antagonist, with antipsychotic adn antidepressant properties it can be used to treat used in schizophrenia or senile dementia etc., but not produces major extrapyramidal side effects.
**Levosulpiride - CAS 23672-07-3**

Catalog Number: 23672-07-3  
Molecular Weight: 341.43  
Molecular Formula: C15H23N3O4S  
Description: Levosulpiride is a selective antagonist for D2 dopamine receptors used as an antipsychotic and prokinetic agent. Levosulpiride is used in the treatment of psychoses, particularly negative symptoms of schizophrenia, anxiety disorders, dysthymia, vertigo, dyspepsia, irritable bowel syndrome and premature ejaculation.

**Lensiprazine - CAS 327026-93-7**

Catalog Number: 327026-93-7  
Molecular Weight: 422.50  
Molecular Formula: C24H27FN4O2  
Description: Lensiprazine is a potent in vitro dopamine receptor antagonist and highly active as serotonin reuptake inhibitor.

**Alizapride - CAS 59338-93-1**

Catalog Number: 59338-93-1  
Molecular Weight: 315.37  
Molecular Formula: C16H21N5O2  
Description: Alizapride is a dopamine antagonist. It has prokinetic and antiemetic effects and is used in the treatment of nausea and vomiting, including postoperative nausea and vomiting. It is structurally related to metoclopramide and other benzamides. It has been listed.

**(S)-5-Methoxy-N-propyl-2-aminotetraline hydrochloride - CAS 93601-86-6**

Catalog Number:  
Molecular Weight: 255.78  
Molecular Formula: C14H21NO.HCl  
Description: (S)-5-Methoxy-N-propyl-2-Aminotetraline hydrochloride is a dopamine receptor agonist.
(+)‐PD 128907 hydrochloride - CAS 300576-59-4

Catalog Number: 

Molecular Weight: 285.77  
Molecular Formula: C14H19NO3.HCl

Description: (+)‐PD 128907 hydrochloride, the more active enantiomer of trans‐(±)‐PD 128907, is a potent D3 dopamine receptor agonist (Ki = 2.3 nM), with 18‐200‐fold selectivity over other dopamine receptor subtypes.

Nomifensine maleate - CAS 32795-47-4

Catalog Number: 32795-47-4

Molecular Weight: 354.40  
Molecular Formula: C20H22N2O4

Description: Nomifensine maleate is maleate salt form of Nomifensine. Nomifensine, also called as Hoe 984 or Linamiphen, as a norepinephrine‐dopamine reuptake inhibitor it is an antidepressant drug but due to increased incidence of hemolytic anemia, as well as kidney

Pridopidine - CAS 346688-38-8

Catalog Number: 346688-38-8

Molecular Weight: 587.71  
Molecular Formula: C15H23NO2S

Description: Pridopidine, also known as ACR16, is a dopamine stabilizer used in the treatment of neurologic and psychiatric disorders.

A 412997 dihydrochloride - CAS 1347744-96-0

Catalog Number: 

Molecular Weight: 382.33  
Molecular Formula: C19H23N3O.2HCl

Description: A 412997 dihydrochloride is a potent and selective agonist for the dopamine D4 receptor (Ki = 7.9 and 12.1 nM for human D4 and rat D4, receptors) with no activity for other dopamine receptors.
**3'-Fluorobenzylspiperone maleate - CAS 1135278-61-3**

**Catalog Number:**

**Molecular Weight:** 619.67  
**Molecular Formula:** C30H31F2N3O2.C4H4O4

**Description:** 3'-Fluorobenzylspiperone maleate is a potent and selective ligand for the dopamine D2 receptor (Ki = 0.023 nM), displaying 2.5-fold greater affinity for D2 and a 12-fold lower affinity for 5-HT2 receptors.

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**Fenoldopam hydrochloride - CAS 181217-39-0**

**Catalog Number:**

**Molecular Weight:** 342.22  
**Molecular Formula:** C16H16ClNO3.HCl

**Description:** Fenoldopam hydrochloride is a selective partial agonist of dopamine D1 receptor (EC50 = 57 nM). It also acts as an α2-adrenoceptor antagonist in vitro (Ki = 15 - 25 nM). Fenoldopam can be used as a vasodilator and antihypertensive.

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**GSK 789472 hydrochloride - CAS 1257326-24-1**

**Catalog Number:**

**Molecular Weight:** 295.81  
**Molecular Formula:** C15H21N3O.HCl

**Description:** GSK 789472 hydrochloride is a selective dopamine D3 receptor antagonist and D2 partial agonist (pEC50 values are <5.5 and 8.3, respectively). GSK 789472 exhibits selectivity against the D4 receptor in both agonist and antagonist assays.

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**7-Hydroxy-DPAT hydrobromide - CAS 76135-30-3**

**Catalog Number:**

**Molecular Weight:** 328.28  
**Molecular Formula:** C16H25NO.HBr

**Description:** 7-Hydroxy-DPAT hydrobromide is a dopamine D3 receptor agonist (Ki = ~ 1, 10, 650 and ~ 5000 nM for D3, D2, D4 and D1 receptors, respectively).
4-Phenyl-1,2,3,4-tetrahydroisoquinoline hydrochloride - CAS 6109-35-9

Catalog Number: 
Molecular Weight: 245.75  Molecular Formula: C15H15N.HCl
Description: An inhibitor of release of dopamine induced by methamphetamine.

Etybenzatropine - CAS 524-83-4

Catalog Number: 524-83-4
Molecular Weight: 321.46  Molecular Formula: C22H27NO
Description: Etybenzatropine is an anticholinergic/antihistamine. It is used as an antiparkinsonian agent. It may act as a dopamine reuptake inhibitor.

6-Methyl Pergolide - CAS 57202-76-3

Catalog Number: 57202-76-3
Molecular Weight: 286.43  Molecular Formula: C17H22N2S
Description: 6-Methyl Pergolide is a dopamine agonist. It is also a potent antagonist of 5-HT2A and 5-HT2B receptors on porcine cardiac valves. It increases serum corticosterone concentration in rats at a dose of 3 mg/kg. It also activates brain dopaminergic receptors and lowers cranial DOPAC levels in rats.

Clebopride Malate - CAS 57645-91-7

Catalog Number: 57645-91-7
Molecular Weight: 477.94  Molecular Formula: C23H28ClN3O6
Description: Clebopride is a substituted benzamide as a dopamine antagonist used to treat functional gastrointestinal disorders.
### PD 168568 dihydrochloride - CAS 210688-56-5

**Catalog Number:**

**Molecular Weight:** 422.39 **Molecular Formula:** C22H27N3O.2HCl

**Description:** PD 168568 dihydrochloride is a potent and selective dopamine D4 receptor antagonist (Ki= 8.8 and 1842 nM at D4 and D2 receptors respectively).

![PD 168568 dihydrochloride](https://www.bocsci.com/)

### PNU 177864 hydrochloride - CAS 250266-51-4

**Catalog Number:**

**Molecular Weight:** 438.89 **Molecular Formula:** C18H21F3N2O3S.HCl

**Description:** PNU 177864, a trifluromethoxy-phenylsulphonylamine, is a highly selective dopamine D3 receptor antagonist, which induces phospholipidosis and exhibits antischizophrenic activity in vivo.

![PNU 177864 hydrochloride](https://www.bocsci.com/)

### PNU 96415E - CAS 170856-41-4

**Catalog Number:**

**Molecular Weight:** 413.36 **Molecular Formula:** C21H25FN2O.2HCl

**Description:** PNU 96415E, chemically unrelated to clozapine, exhibits high affinity for dopamine D4 and serotonergic 5-HT2A receptors and relatively weak affinity at D2 receptors (Ki= 3.0, 5.8, 134, 181, 199, 240, 411 and > 678 nM for D4, 5-HT2A, 5-HT1A, α1, D2, D3, D1, α2 and muscarinic receptors respectively). PNU-96415E has a profile of behavioral effects in rodents very similar to that of clozapine, including complete discriminative stimulus generalization.

![PNU 96415E](https://www.bocsci.com/)

### Sonepiprazole - CAS 170858-33-0

**Catalog Number:**

**Molecular Weight:** 401.52 **Molecular Formula:** C21H27N3O3S

**Description:** Sonepiprazole is a selective, brain penetrating and orally bioactive antagonist for the rat and human dopamine D4 receptor (Ki = 10 nM) with low affinity at other monoamine receptors (Ki > 2000 nM). Sonepiprazole was shown to induce c-fos gene expression in medial prefrontal cortex in a similar manner to clozapine.

![Sonepiprazole](https://www.bocsci.com/)
REMOXIPRIDE HYDROCHLORIDE - CAS 73220-03-8

Catalog Number: 73220-03-8

Molecular Weight: 407.73  Molecular Formula: C16H24BrClN2O3

Description: Remoxipride is a selective dopamine D2 receptor antagonist. It shows selectivity over D3 and D4 receptors with Ki values are ~300nM for D2 receptor, ~1600nM for D3 receptor and ~2800 nM for D4 receptor. Remoxipride shows antipsychotic activity in vivo with no extrapyramidal side effects. In Jul 1995, treatment for Psychotic disorders in USA was discontinued.

SKF-82958 hydrobromide - CAS 80751-65-1

Catalog Number: 80751-65-1  Molecular Weight: 410.73  Molecular Formula: C19H21BrClNO2

Description: SKF-82958 hydrobromide is a synthetic compound of the benzazepine class that acts as a D1/D5 receptor full agonist. It has characteristic anorectic effects, hyperactivity and self-administration in animals. It also acts as an agonist of ERα with negligible activity at ERβ, making it a subtype-selective estrogen. It could induce PPD, SP and PPE mRNA expression in the intact rat striatum.

Eticlopride - CAS 84226-12-0

Catalog Number: 84226-12-0

Molecular Weight: 340.85  Molecular Formula: C17H25ClN2O3

Description: Eticlopride is a selective dopamine D2 antagonist. It was initially developed as a potential antipsychotic agent. Now Eticlopride is primarily used in pharmacological research.

SKF 77434 hydrobromide - CAS 300561-58-4

Catalog Number: 300561-58-4

Molecular Weight: 376.29  Molecular Formula: C19H21NO2.HBr

Description: SKF 77434 hydrobromide is a selective dopamine D1-like receptor partial agonist (IC50 = 19.7 and 2425 nM for binding to D1-like and D2-like receptors, respectively).
**1H-3-Benzazepine-7,8-diol,6-chloro-2,3,4,5-tetrahydro-1-phenyl-3-(2-propen-1-yl)-, hydrobromide (1:1) - CAS 74115-01-8**

- **Catalog Number:** 74115-01-8
- **Molecular Weight:** 410.74
- **Molecular Formula:** C19H21ClNO2Br
- **Description:** 1H-3-Benzazepine-7,8-diol,6-chloro-2,3,4,5-tetrahydro-1-phenyl-3-(2-propen-1-yl)-, hydrobromide (1:1) is a synthetic compound belongs to the benzazepine class. It acts as a D1/D5 receptor full agonist. It produces characteristic anorectic effects, hyperactivity and self-administration in animals, which is similar to but not identical with dopaminergic stimulants such as amphetamine.

**Zuclopenthixol acetate - CAS 85721-05-7**

- **Catalog Number:** 85721-05-7
- **Molecular Weight:** 443.01
- **Molecular Formula:** C24H27ClN2O2S
- **Description:** Zuclopenthixol is a typical antipsychotic drug. It belongs to thioxanthene class. Zuclopenthixol is the cis-isomer of clopenthixol. Zuclopenthixol is not approved for use in the United States. It is a dopamine D1/D2 receptor antagonist. It can be use for the treatment of Schizophrenia.

**U 99194 maleate - CAS 234757-41-6**

- **Catalog Number:**
- **Molecular Weight:** 393.48
- **Molecular Formula:** C17H27NO2.C4H4O4
- **Description:** U 99194 maleate is a potent and selective dopamine D3 antagonist (Ki = 160, 2281 and > 10000 nM for human cloned D3, D2 and D4 receptors, respectively).

**Neuromedin N - CAS 92169-45-4**

- **Catalog Number:** 92169-45-4
- **Molecular Weight:** 745.95
- **Molecular Formula:** C38H63N7O8
- **Description:** Neuromedin N is a potent modulator of dopamine D2 receptor agonist which binds in rat neostriatal membranes. It produced a significant concentration-related increase in the Kd values of [3H]L-(−)-N-propylnorapomorphine binding sites in the concentration range of 1-10 nM.
**PAOPA - CAS 114200-31-6**

**Catalog Number:**

**Molecular Weight:** 254.29  
**Molecular Formula:** C11H18N4O3

**Description:** PAOPA is an allosteric modulator of dopamine D2 receptors. It can prevent and reverse behavioral and biochemical abnormalities in an amphetamine-sensitized animal model of schizophrenia.

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**MLS 1547 - CAS 315698-36-3**

**Catalog Number:**

**Molecular Weight:** 354.83  
**Molecular Formula:** C19H19ClN4O

**Description:** MLS 1547 is a dopamine D2 receptor agonist. It may be used in the combination with antipsychotic drugs.

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**NPEC-caged-dopamine - CAS 1257326-23-0**

**Catalog Number:**

**Molecular Weight:** 346.33  
**Molecular Formula:** C17H18N2O6

**Description:** NPEC-caged-dopamine is a caged version of dopamine. It can release dopamine leading to dopamine D1 receptor activation upon UV light illumination.

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**NGD 94-1 - CAS 178928-68-2**

**Catalog Number:**

**Molecular Weight:** 320.39  
**Molecular Formula:** C18H20N6

**Description:** NGD 94-1 is a dopamine D4 receptor ligand and it is selective over D1, D2, D3 and D5 receptors.
L-745,870 trihydrochloride - CAS 866021-03-6
Catalog Number:
Molecular Weight: 436.21  Molecular Formula: C18H22N4Cl2
Description: L-745,870 trihydrochloride is the trihydrochloride salt of L-745,870, which is highly selective and potent D4 dopamine receptor antagonist with Ki value of 0.51nM. It is > 1000-fold selective over 5-HT2, D1 and D5 receptors. It has antipsychotic effects in animal models, but it was not effective in human trials.

L-741,742 hydrochloride - CAS 874882-93-6
Catalog Number:
Molecular Weight: 417.38  Molecular Formula: C23H26N2Cl2O
Description: L-741,742 hydrochloride is the hydrochloride salt of L-741,742, which is a highly selective and potent D4 dopamine receptor antagonist with Ki value of 3.5 nM at cloned human D4 receptors. It is used in the treatment of psychological diseases such as schizophrenia and depression.

(R)-(−)-Apomorphine hydrochloride - CAS 314-19-2
Catalog Number:
Molecular Weight: 303.79  Molecular Formula: C17H18NO2Cl
Description: (R)-(−)-Apomorphine hydrochloride is the hydrochloride salt of apomorphine, which is a prototypical non-selective dopamine D2 agonist. It exhibits pKi values of 6.43, 7.08, 7.59, 8.36, and 7.83 for human recombinant D1, D2L, D3, D4, and D5 receptors, respectively. It produces biphasic effects on locomotor activity and shows neuroprotective actions following systemic administration in vivo.

Carmoxirole hydrochloride - CAS 115092-85-8
Catalog Number:
Molecular Weight: 410.94  Molecular Formula: C24H26N2O2.HCl
Description: The hydrochloride salt form of Carmoxirole, which is a selective, peripherally acting dopamine D2 receptor agonist and exhibits antihypertensive activities in vivo.
Dihydrexidine hydrochloride - CAS 158704-02-0

**Catalog Number:**

**Molecular Weight:** 303.79  
**Molecular Formula:** C17H17NO2.HCl

**Description:** The hydrochloride salt form of Dihydrexidine, which has been found to be an effective full efficacy dopamine D1 agonist and show antiparkinsonism effects in vivo.

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2-CMDO - CAS 24140-98-5

**Catalog Number:**

**Molecular Weight:** 442.90  
**Molecular Formula:** C19H19ClN2O.C4H4O4

**Description:** 2-CMDO has been found to be a dopamine D4 receptor antagonist and could also exhibit neuroleptic and extrapyramidal effects.

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(+)-AJ 76 hydrochloride - CAS 85378-82-1

**Catalog Number:**

**Molecular Weight:** 269.81  
**Molecular Formula:** C15H23NO.HCl

**Description:** The hydrochloride salt form of (+)-AJ 76, which is a dopamine receptor antagonist.

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RuBi-Dopa

**Catalog Number:**

**Molecular Weight:** 713.6  
**Molecular Formula:** C31H36Cl2N5O2PRu

**Description:** RuBi-Dopa is RuBi-caged dopamine. RuBi-Dopa has a high uncaging efficiency and can be released with visible (blue-green) and IR light in a two-photon regime. It does not display phototoxicity at a concentration of 300 μM.
**Roxindole hydrochloride - CAS 108050-82-4**

**Catalog Number:**

**Molecular Weight:** 382.93  
**Molecular Formula:** C23H26N2O.HCl

**Description:** Roxindole hydrochloride is a selective and potent presynaptic D-2 dopamine autoreceptor agonist, with affinity for D3, D4 and 5-HT1 receptors (pKi values are 8.55, 8.93, 8.23, 9.42, 6.00 and 7.05 for human D2, D3, D4, 5-HT1A, 5-HT1B and 5-HT1D receptors).

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**Piribedil dihydrochloride - CAS 1451048-94-4**

**Catalog Number:**

**Molecular Weight:** 371.27  
**Molecular Formula:** C16H18N4O2.2HCl

**Description:** Piribedil dihydrochloride is a dopamine receptor agonist that is selective for the D3 subtype, for which it has 20 times higher affinity than for D2, and possesses no significant affinity for D1 receptors.

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**PG 01037 dihydrochloride - CAS 675599-62-9**

**Catalog Number:**

**Molecular Weight:** 554.34  
**Molecular Formula:** C26H26Cl2N4O.2HCl

**Description:** PG 01037 dihydrochloride is a dopamine D3 receptor antagonist, which is more selective for D3 receptors than other D3 antagonists that are currently available with a D2/D3 selectivity ratio of 867 and a D4/D3 selectivity ratio of 13,000 (Ki values are 0.70, 93.3 and 375 nM for D3, D2 and D4 receptors respectively).

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**PD 168077 maleate - CAS 630117-19-0**

**Catalog Number:**

**Molecular Weight:** 450.49  
**Molecular Formula:** C20H22N4O.C4H4O4

**Description:** PD 168077 maleate is a potent D4 dopamine receptor agonist (Ki = 8.7 nM) with > 400-fold selectivity over D2 and > 300-fold selectivity versus D3 subtypes respectively. It is suitable for central and peripheral delivery, and used in studies of penile erection, learning and memory.
Thioridazine hydrochloride - CAS 130-61-0

**Catalog Number:**

**Molecular Weight:** 407.04  
**Molecular Formula:** C21H26N2S2.HCl

**Description:** Thioridazine hydrochloride is a dopamine receptor antagonist displaying antipsychotic activity. Thioridazine induces apoptosis via targeting the PI 3-K/Akt/mTOR/p70 S6K pathway, and induces G1 cell cycle arrest. Thioridazine exhibits anticancer activity in cervical, endometrial and breast cancer cells.

(+)-UH 232 maleate - CAS 1217473-50-1

**Catalog Number:**

**Molecular Weight:** 391.51  
**Molecular Formula:** C18H29NO.C4H4O4

**Description:** (+)-UH 232 maleate is a dopamine D2 antagonist (Ki = 72.7 nM in a ligand binding assay; apparent KB = 14.5 nM in a cAMP accumulation assay) that preferentially effects on central dopamine autoreceptors. (+)-UH 232 maleate significantly promotes dopamine synthesis and turnover. (+)-UH 232 maleate is also a dopamine D3 partial agonist.

Spiperone hydrochloride - CAS 2022-29-9

**Catalog Number:**

**Molecular Weight:** 431.94  
**Molecular Formula:** C23H26FN3O2.HCl

**Description:** Spiperone hydrochloride is a 5-HT2A and selective dopamine D2 receptor antagonist (Ki = 0.06, 0.6, 0.08, ~ 350, ~ 3500 nM for D2, D3, D4, D1 and D5 receptors, respectively) used as an antipsychotic. It also acts as an activator of calcium-activated chloride channels (EC50 = 9.3 µM).

SKF 83959 hydrobromide - CAS 67287-95-0

**Catalog Number:**

**Molecular Weight:** 398.73  
**Molecular Formula:** C18H20CINO2.HBr

**Description:** SKF 83959 hydrobromide is a dopamine D1-like receptor partial agonist (Ki = 118, 7.56, 920 and 399 nM for rat D1, D5, D2 and D3 receptors, respectively), exhibiting anti-Parkinsonian effects and antagonizing the behavioral effects of cocaine. SKF 83959 also acts as an allosteric modulator of the σ1 receptor via potentiating binding of the σ1 receptor.
SKF 83822 hydrobromide - CAS 74115-10-9
Catalog Number:
Molecular Weight: 424.76  Molecular Formula: C20H22ClNO2.HBr
Description: SKF 83822 hydrobromide is a selective and high affinity dopamine D1-like receptor agonist (Ki = 3.2, 3.1, 186, 66, 335, 1167, 1251 and 1385 nM at recombinant D1, D5, D2, D3, D4, 5-HT2A, α1A and α1B receptors, respectively). SKF 83822 stimulates adenylyl cyclase (EC50 = 65 nM) but not phosphoinositide hydrolysis.

SKF 81297 hydrobromide - CAS 67287-39-2
Catalog Number:
Molecular Weight: 370.67  Molecular Formula: C16H16ClNO2.HBr
Description: SKF 81297 hydrobromide is a selective dopamine D1-like receptor agonist.

SKF 83566 hydrobromide - CAS 108179-91-5
Catalog Number:
Molecular Weight: 413.15  Molecular Formula: C17H18BrNO.HBr
Description: SKF 83566 hydrobromide is a potent and selective dopamine D1-like receptor antagonist (Ki~ 0.56 nM for D1; KB = 2 μM for D2). SKF 83566 is also reported to be an antagonist at the vascular 5-HT2 receptor (Ki = 11 nM).

SKF 38393 hydrobromide - CAS 20012-10-6
Catalog Number:
Molecular Weight: 336.23  Molecular Formula: C16H17NO2.HBr
Description: SKF 38393 hydrobromide is a selective dopamine D1-like receptor partial agonist (Ki = 1, ~ 0.5, ~ 150, ~ 5000 and ~ 1000 nM for D1, D5, D2, D3 and D4 receptors, respectively).
**SCH 39166 hydrobromide - CAS 1227675-51-5**

**Catalog Number:**

Molecular Weight: 394.73  
Molecular Formula: C19H20ClNO.HBr

**Description:** SCH 39166 hydrobromide is a high affinity dopamine D1/D5 receptor antagonist (Ki = 12, 2, 980, 5520, 80 and 731 nM for binding to D1, D5, D2, D4, 5-HT and α2a receptors, respectively). SCH 39166 is used in the treatment of schizophrenia, cocaine addiction and obesity.

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**Lisuride maleate - CAS 19875-60-6**

**Catalog Number:** 19875-60-6

Molecular Weight: 454.58  
Molecular Formula: C25H31N3O5

**Description:** Lisuride maleate, an ergot derivative, is a nonselective dopamine receptor agonist with high affinity for D2, D3 and D4 receptors along with 5-HT1A. As an anti-Parkinson's agent with anticonvulsive effects, Lisuride maleate has been shown to decrease the release of prolactin and reduce inflammatory mediators such as IL6 and TNF-α.

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**Oxidopamine hydrochloride - CAS 28094-15-7**

**Catalog Number:** 28094-15-7

Molecular Weight: 205.64  
Molecular Formula: C8H12ClNO3

**Description:** Oxidopamine hydrochloride, also called as 6-OHDA, is a selective catecholaminergic neurotoxin that selectively destroy dopaminergic and noradrenergic neurons in the brain.

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**Clozapine - CAS 5786-21-0**

**Catalog Number:** 5786-21-0

Molecular Weight: 326.82  
Molecular Formula: C18H19ClN4

**Description:** Clozapine is an atypical antipsychotic drug by acting as a 5-HT antagonist, used in the treatment of schizophrenia.
**Triflupromazine Hydrochloride - CAS 1098-60-8**

*Catalog Number:* 1098-60-8  
*Molecular Weight:* 388.88  
*Molecular Formula:* C18H20ClF3N2S  
*Description:* The hydrochloride salt form of Triflupromazine, an analogue of Chlorpromazine, is effective as a nontipsychotic drug and antemetic agent.

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**PD 128907 - CAS 123594-64-9**

*Catalog Number:*  
*Molecular Weight:* 249.31  
*Molecular Formula:* C14H19NO3  
*Description:* PD 128907 is a selective D2 and D3 dopamine receptor agonist that can be used as an antipsychotic.

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**Talipexole - CAS 101626-70-4**

*Catalog Number:* 101626-70-4  
*Molecular Weight:* 209.31  
*Molecular Formula:* C10H15N3S  
*Description:* Talipexole (B-HT920) is a highly selective agonist of D2 receptor and α2-adrenoceptor which has better ameliorative rate of symptom than bromocriptine and might be effective in the treatment of Parkinson's disease.

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**Nafadotride - CAS 149649-22-9**

*Catalog Number:*  
*Molecular Weight:* 365.47  
*Molecular Formula:* C22H27N3O2  
*Description:* Nafadotride inhibits potently and stereoselectively [125I]iodosulpride binding at recombinant human dopamine D3 receptors. Ki values are 0.52, 5, and 269 nM for human cloned D3, D2 and D4 receptors respectively.
Pardoprunox - CAS 269718-84-5

Catalog Number: 269718-84-5

Molecular Weight: 233.27

Molecular Formula: C12H15N3O2

Description: Pardoprunox, also called as SLV308 or DU-126891, is a 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%) that has shown antiparkinsonian potential in animal.

RO10-5824 - CAS 189744-46-5

Catalog Number:

Molecular Weight: 280.37

Molecular Formula: C17H20N4

Description: RO10-5824 is a D4-selective partial agonist (EC50 = 205 nM) that binds with high affinity (Ki = 5.2 nM), and is approximately 250-fold selectivity over D3 receptors and > 1000-fold selectivity over D2, D1 and D5 receptors. RO10-5824 is a potent candidate for the management of cocaine use disorders.

ABT724 - CAS 70006-24-5

Catalog Number: 70006-24-5

Molecular Weight: 293.37

Molecular Formula: C17H19N5

Description: ABT-724 is a dopamine D4 agonist originated by Abbott Laboratories with EC50 value of 12.4 nM. In Dec 2007, Phase-II for Erectile dysfunction was discontinued in USA. Now ABT-724 continues to be used in scientific research into the function of the D4 receptor.

(+)-PHNO hydrochloride - CAS 99705-65-4

Catalog Number:

Molecular Weight: 283.79

Molecular Formula: C15H21NO2.HCl

Description: (+)-PHNO hydrochloride is a potent and selective dopamine D2 agonist.
**(-)-PHNO hydrochloride - CAS 100935-99-7**

**Catalog Number:**

- **Molecular Weight:** 283.79
- **Molecular Formula:** C₁₅H₂₁NO₂.HCl

**Description:** (-)-PHNO hydrochloride is a potent and selective dopamine D₂ agonist.

**rac-Rotigotine Hydrochloride - CAS 102120-99-0**

**Catalog Number:** 102120-99-0

- **Molecular Weight:** 351.93
- **Molecular Formula:** C₁₉H₂₆ClNOS

**Description:** The hydrochloride salt form of rac-Rotigotine, a mixture of S- and R-Rotigotine, is an effective and highly selective D₂ receptor agonist which could be used in the treatment of Parkinson’s disease. Ki: 0.69 nM.

**SCH 23390 hydrochloride - CAS 125941-87-9**

**Catalog Number:**

- **Molecular Weight:** 324.24
- **Molecular Formula:** C₁₇H₁₉Cl₂NO

**Description:** SCH 23390 hydrochloride is the hydrochloride salt of SCH 23390 which is a dopamine receptor antagonist. SCH 23390, a halobenzazepine, is a selective antagonist of the dopamine D₁-like receptor subtypes D₁ (Kᵢ = 0.2 nM) and D₅ (Kᵢ = 0.3 nM).

**(R)-5-Methoxy-N-propyl-2-aminotetraline hydrochloride - CAS 93601-85-5**

**Catalog Number:**

- **Molecular Weight:** 255.78
- **Molecular Formula:** C₁₄H₂₁NO.HCl

**Description:** (R)-5-Methoxy-N-propyl-2-Aminotetraline hydrochloride is a dopamine receptor agonist and an intermediate in the production of antipsychotic agents and antiparkinson drugs.
**WAY 100635 hydrochloride - CAS 146714-97-8**

**Catalog Number:**

**Molecular Weight:** 531.947  
**Molecular Formula:** C25H34N4O2.3HCl

**Description:** WAY 100635 hydrochloride is a 5-HT1A receptor antagonist with dopamine D4 agonist activity (Ki values 2.2 nM, 6260 nM, 24 nM, >10,000 nM, 20 nM, 322 nM, and 16 nM for 5-HT1A, 5-HT2A, 5-HT2B, 5-HT7, α1A, α1B, and D4, respectively).

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**Eticlopride hydrochloride - CAS 97612-24-3**

**Catalog Number:**

**Molecular Weight:** 377.31  
**Molecular Formula:** C17H25ClN2O3.HCl

**Description:** Eticlopride hydrochloride is a selective dopamine D2/D3 receptor antagonist (Ki = 0.50 and 0.16 nM, respectively).

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**Fananserin - CAS 127625-29-0**

**Catalog Number:**

**Molecular Weight:** 425.52  
**Molecular Formula:** C23H24FN3O2S

**Description:** Fananserin is a 5-HT2A receptor and a dopamine D4 receptor antagonist (Ki = 0.26, 2.93, 25, 38, 70 and 726 nM for 5-HT2A, D4, H1, α1, 5-HT1A and D2 receptors, respectively). Fananserin inhibits 5-HT-induced inositol phosphate formation in vitro (IC50 = 7.76 nM), and antagonizes mescaline-induced head twitches in vivo.

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**Levophacetoperane hydrochloride - CAS 23257-56-9**

**Catalog Number:**

**Molecular Weight:** 269.77  
**Molecular Formula:** C14H20ClNO2

**Description:** Levophacetoperane hydrochloride, a sympathomimetic central nervous system stimulant used to treat depression, inhibits in vitro in a competitive manner, norepinephrin uptake and dopamine uptake.
Levodopa - CAS 59-92-7
Catalog Number: 59-92-7
Molecular Weight: 197.19
Molecular Formula: C9H11NO4
Description: Levodopa (Sinemet) is an amino acid precursor of dopamine with antiparkinsonian properties.

PPHT hydrochloride - CAS 71787-90-1
Catalog Number:
Molecular Weight: 345.91
Molecular Formula: C21H27NO.HCl
Description: PPHT hydrochloride is a potent and selective D2 agonist.

Chlorpromazine HCl - CAS 69-09-0
Catalog Number: 69-09-0
Molecular Weight: 355.33
Molecular Formula: C17H19ClN2S· HCl
Description: Chlorpromazine HCl is a dopamine and potassium channel inhibitor with IC50 of 6.1 and 16 μM for inward-rectifying K+ currents and time-independent outward currents.

Haloperidol - CAS 52-86-8
Catalog Number: 52-86-8
Molecular Weight: 375.86
Molecular Formula: C21H23ClFNO2
Description: Haloperidol (Haldol) is an antipsychotic and butyrophenone.
**L-741,626 - CAS 81226-60-0**

**Catalog Number:**

Molecular Weight: 340.85  
Molecular Formula: C20H21ClN2O

**Description:** L-741,626 is a selective and potent D2 dopamine receptor antagonist. It is centrally active following systemic administration in vivo. It inhibits quinpirole-stimulated mitogenesis transfected with human D2 and D3 receptors in a functional assay. It reversibly blocks D2-mediated currents in Xenopus oocytes by G protein-gated inwardly rectifying K+ (GIRK) channels.

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**Pramipexole impurity D - CAS 104632-27-1**

**Catalog Number:** 104632-27-1

Molecular Weight: 284.25  
Molecular Formula: C10H19Cl2N3S

**Description:** The dihydrochloride salt form of dexpramipexole, also known as R-(+)-Pramipexole, is one of the impurities of pramipexole. It could be used as a negative control in the research of dopamine receptors for the (S) form.

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**Azaperol - CAS 2804-05-9**

**Catalog Number:**

Molecular Weight: 329.419  
Molecular Formula: C19H24FN3O

**Description:** Azaperol acts as a dopamine antagonist and also has antihistaminic and anticholinergic properties. Azaperol is commonly used as a butyrophenone neuroleptic drug in veterinary medicine.

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**SB 277011A dihydrochloride - CAS 1226917-67-4**

**Catalog Number:**

Molecular Weight: 511.49  
Molecular Formula: C28H30N4O.2HCl

**Description:** SB 277011A dihydrochloride is a selective and brain penetrating dopamine D3 receptor antagonist (pKi = 8.0, 6.0, 5.0 and <5.2 for D3, D2, 5-HT1D and 5-HT1B, respectively) with 100-fold selectivity over the hD2 receptor and over 66 other receptors.
**Fenoldopam - CAS 67227-56-9**

**Catalog Number:** 67227-56-9  
**Molecular Weight:** 305.76  
**Molecular Formula:** C16H16ClNO3  
**Description:** Fenoldopam is a selective D1 receptor partial agonist, binds to α2-adrenoceptors, increasing renal blood flow used as an antihypertensive agent.

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**Sumanirole maleate - CAS 179386-44-8**

**Catalog Number:**  
**Molecular Weight:** 319.31  
**Molecular Formula:** C15H17N3O5  
**Description:** Sumanirole maleate, also referred as PNU 95666E or U95666E, is a high affinity D2 receptor full agonist that shows >200-fold selectivity over dopamine receptor subtypes (Ki values are 9.0, 1940, >2190 and >7140 for D2, D3, D4 and D1 receptors respectively) with an ED50 of about 46 nM.

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**Pramipexole - CAS 104632-26-0**

**Catalog Number:** 104632-26-0  
**Molecular Weight:** 211.33  
**Molecular Formula:** C10H17N3S  
**Description:** Pramipexole (Mirapex) is a partial/full D2S, D2L, D3, D4 receptor agonist with a Ki of 3.9, 2.2, 0.5 and 5.1 nM for D2S, D2L, D3, D4 receptor, respectively.

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**Dopamine HCl - CAS 62-31-7**

**Catalog Number:** 62-31-7  
**Molecular Weight:** 189.64  
**Molecular Formula:** C8H12ClNO2  
**Description:** Dopamine HCl is a catecholamine neurotransmitter present in a wide variety of animals, and a dopamine D1-5 receptors agonist.
Raclopride - CAS 84225-95-6

Catalog Number: 84225-95-6
Molecular Weight: 347.24
Molecular Formula: C15H20Cl2N2O3
Description: Raclopride, also known as FLA 870, is a selective and potent dopamine D2/D3 receptor antagonist. It has high affinity (Kd = 1.2 nM) and high selectivity for D2 receptors in vitro and in vivo (IC50 = 32 nM).

6,7-Dihydroxy-2-aminotetraline hydrobromide - CAS 13575-86-5

Catalog Number: 13575-86-5
Molecular Weight: 260.13
Molecular Formula: C10H13NO2.HBr
Description: 6,7-Dihydroxy-2-Aminotetraline hydrobromide is a dopamine receptor agonist.

Molindone hydrochloride - CAS 15622-65-8

Catalog Number: 15622-65-8
Molecular Weight: 312.83
Molecular Formula: C16H25ClN2O2
Description: Molindone hydrochloride, an indole derivative, as an antipsychotic agent it blocks the effects of dopamine in the brain which can be used for the treatment of schizophrenia.

GR 103691 - CAS 162408-66-4

Catalog Number: 162408-66-4
Molecular Weight: 485.62
Molecular Formula: C30H35N3O3
Description: GR 103691 is a potent dopamine D3 receptor antagonist.

NGB 2904 - CAS 189061-11-8

Catalog Number: 189061-11-8
Molecular Weight: 530.92
Molecular Formula: C28H29Cl2N3O.HCl
Description: NGB 2904 is a dopamine D3 receptor antagonist. It can inhibit quinpirole-stimulated mitogenesis with IC50 value of 6.8 nM.
**CP 226269 - CAS 220941-93-5**

**Catalog Number:**

Molecular Weight: 310.37  
Molecular Formula: C18H19FN4  
Description: CP 226269 is a selective dopamine D4 agonist.

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**Mesoridazine besylate - CAS 32672-69-8**

**Catalog Number:** 32672-69-8  
Molecular Weight: 544.75  
Molecular Formula: C21H26N2OS2  
Description: Mesoridazine besylate, a phenothiazine dopamine receptor antagonist, has been described to demonstrate inhibition for D2DR and D4DR. High affinity for the cloned rat dopamine D4 receptor (Ki20 nM).

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**ABT 724 trihydrochloride - CAS 587870-77-7**

**Catalog Number:**

Molecular Weight: 402.75  
Molecular Formula: C17H19N5.3HCl  
Description: ABT 724 trihydrochloride is a potent dopamine D4 receptor partial agonist (EC50 = 12.4 nM; 61% efficacy vs. dopamine) for treatment of sexual dysfunction.

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**SKF-38393 hydrochloride - CAS 62717-42-4**

**Catalog Number:** 62717-42-4  
Molecular Weight: 291.78  
Molecular Formula: C16H18ClNO2  
Description: SKF-38393, also known as (+/-)-SKF-38393, is a synthetic compound of the benzazepine chemical class which acts as a selective D1/D5 receptor partial agonist. It has stimulant and anorectic effects.

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**Quinelorane hydrochloride - CAS 97548-97-5**

**Catalog Number:**

Molecular Weight: 319.27  
Molecular Formula: C14H22N4.2HCl  
Description: Quinelorane hydrochloride, 2-aminopyridine analog of quinpirole, is a dopamine D2 and D3 receptor agonist (Ki= 5.7 and 3.4 nM respectively).
Flupenthixol dihydrochloride - CAS 2413-38-9

Catalog Number:  
Molecular Weight: 507.44  
Molecular Formula: C23H25F3N2OS.2HCl  
Description: Flupenthixol dihydrochloride is a dopamine receptor antagonist used as an antipsychotic drug for schizophrenia treatment. Mixture of E/Z isomers (ratio: 60:40).

Amisulpride - CAS 71675-85-9

Catalog Number: 71675-85-9  
Molecular Weight: 369.48  
Molecular Formula: C17H27N3O4S  
Description: Amisulpride is an atypical antipsychotic used to treat psychosis in schizophrenia and episodes of mania in bipolar disorder.

Tiapride hydrochloride - CAS 51012-33-0

Catalog Number: 51012-33-0  
Molecular Weight: 364.88  
Molecular Formula: C15H25ClN2O4S  
Description: Tiapride is a D2 and D3 dopamine receptor antagonist used to treat a variety of neurological and psychiatric disorders.

Barnetil - CAS 53583-79-2

Catalog Number: 53583-79-2  
Molecular Weight: 354.46  
Molecular Formula: C17H26N2O4S  
Description: Barnetil acts as a selective D2 and D3 receptor antagonist, which has high affinity for these receptors of dissociation constants of 2.2 nM and 2.4 nM respectively. It is an atypical antipsychotic used to treat psychosis in schizophrenia and episodes of mania in bipolar disorder. It has also been shown to have clinically relevant affinity for the GHB receptor. It was launched by Sanofi-Aventis in 1976.
**Adrogolide Hydrochloride - CAS 166591-11-3**

**Catalog Number:** 166591-11-3  
**Molecular Weight:** 435.96  
**Molecular Formula:** C22H26ClNO4S  
**Description:** The hydrochloride salt form of Adrogolide, a quinoline derivative, has been found to be a dopamine D1 receptor agonist that was once studied in Parkinson's disease.

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**{(S)}-{(−)}-5-Methoxy-2-Aminotetraline hydrochloride - CAS 58349-17-0**

**Catalog Number:**  
**Molecular Weight:** 213.7  
**Molecular Formula:** C11H15NO.HCl  
**Description:** (S)-(−)-5-Methoxy-2-Aminotetraline hydrochloride is a dopamine receptor agonist as a therapy for Parkinson's disease.

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**Sunepitron hydrochloride - CAS 148408-65-5**

**Catalog Number:**  
**Molecular Weight:** 365.86  
**Molecular Formula:** C17H23N5O2.HCl  
**Description:** Sunepitron hydrochloride is a potent and selective serotonin 5-HT1A autoreceptor agonist, α2-adrenergic antagonist, and dopamine D2 agonist. The phase III clinical trial for the treatment of depression is discontinued.

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**Sb-277011 - CAS 215803-78-4**

**Catalog Number:** 215803-78-4  
**Molecular Weight:** 438.56  
**Molecular Formula:** C28H30N4O  
**Description:** Sb-277011 is a novel, high-affinity and selective dopamine D3 receptor antagonist that may have potential in treating the negative symptoms of schizophrenia. pKi: 8.0, 6.0, 5.0 and <5.2 for D3, D2, 5-HT1D and 5-HT1B respectively.
N 0734 hydrochloride - CAS 102121-01-7

Catalog Number:

Molecular Weight: 351.93  Molecular Formula: C19H25NOS.HCl

Description: N 0734 hydrochloride is a potent and selective dopamine (DA) receptor agonist.

Trimopam - CAS 20012-08-2

Catalog Number: 20012-08-2

Molecular Weight: 297.398  Molecular Formula: C19H23NO2

Description: Trimopam is a dopamine receptor agonist.

TL 99 hydrobromide - CAS 62421-56-1

Catalog Number:

Molecular Weight: 288.18  Molecular Formula: C12H17NO2.HBr

Description: TL 99 hydrobromide is a putative dopamine autoreceptor agonist.

Ziprasidone - CAS 146939-27-7

Catalog Number: 146939-27-7

Molecular Weight: 412.94  Molecular Formula: C21H21ClN4OS

Description: Ziprasidone is a combined 5-HT (serotonin) and dopamine receptor antagonist like other atypical antipsychotic agents. Ziprasidone targets dopamine neurotransmission at dopamine D2 receptors which is significant for the positive symptoms of schizophrenia.

Prop-2-ynyl-2-aminotetraline hydrochloride - CAS 134467-59-7

Catalog Number:

Molecular Weight: 221.73  Molecular Formula: C13H15N.HCl

Description: Prop-2-ynyl-2-Aminotetraline hydrochloride is a dopamine receptor agonist.
5,6-Dihydroxy-2-aminotetraline hydrobromide - CAS 37096-30-3

Catalog Number:
Molecular Weight: 260.13  Molecular Formula: C10H13NO2HBr
Description: 5,6-Dihydroxy-2-Aminotetraline hydrobromide is a dopamine receptor agonist.

ST-836 - CAS 1148156-63-1

Catalog Number: 1148156-63-1
Molecular Weight: 414.61  Molecular Formula: C23H34N4OS
Description: ST-836, a dopamine receptor ligand, might have similar effect with dopamine and probably useful as an antiparkinsonian agent.

Zicronapine - CAS 170381-16-5

Catalog Number: 170381-16-5
Molecular Weight: 354.92  Molecular Formula: C22H27ClN2
Description: Zicronapine, an inden derivative, has been found to be neurotransmitter receptor modulators of sorts of neurotransmitter and was studied against Schizophrenia.

Blonanserin - CAS 132810-10-7

Catalog Number: 132810-10-7
Molecular Weight: 367.512  Molecular Formula: C23H30FN3
Description: A 5-HT2 serotonin receptor and D2 dopamine receptor antagonist, used as an antipsychotic.
**Quinagolide hydrochloride - CAS 94424-50-7**

**Catalog Number:** 94424-50-7  
**Molecular Weight:** 432.02  
**Molecular Formula:** C20H34ClN3O3S  
**Description:** Quinagolide hydrochloride is a selective dopamine D2 receptor agonist, also is a prolactin inhibitor.

**Metoclopramide - CAS 364-62-5**

**Catalog Number:** 364-62-5  
**Molecular Weight:** 299.8  
**Molecular Formula:** C14H22ClN3O2  
**Description:** Metoclopramide is used mostly for stomach and esophageal problems by bind to dopamine D2 receptors with nanomolar affinity (Ki 28.8 nM)

**Amitifadine hydrochloride - CAS 410074-74-7**

**Catalog Number:** 410074-74-7  
**Molecular Weight:** 264.57  
**Molecular Formula:** C11H12Cl3N  
**Description:** A Serotonin-Preferring Triple Reuptake Inhibitor for the Treatment of Major Depression, with the IC50 values for serotonin, norepinephrine and dopamine reuptake are 12/23/96 nM.

**(R)-Apomorphine Hydrochloride Hemihydrate - CAS 41372-20-7**

**Catalog Number:** 41372-20-7  
**Molecular Weight:** 303.78  
**Molecular Formula:** C17H18ClNO2  
**Description:** (R)-Apomorphine is a non-selective dopamine agonist which activates both D1-like and D2-like receptors, with some preference for the latter subtypes.
**Tetrahydroberberine - CAS 522-97-4**

Catalog Number: 522-97-4  
Molecular Weight: 339.38  
Molecular Formula: C20H21O4N  
Description: Tetrahydroberberine is a protoberberine alkaloid acts as a calcium channel blocker.

![Tetrahydroberberine structure](https://www.bocsci.com/)

**Metoclopramide hydrochloride hydrate - CAS 54143-57-6**

Catalog Number: 54143-57-6  
Molecular Weight: 354.27  
Molecular Formula: C14H25Cl2N3O3  
Description: Metoclopramide hydrochloride hydrate is a dopamine D2 antagonist used to treat nausea and vomiting.

![Metoclopramide structure](https://www.bocsci.com/)

**Pramipexole dihydrochloride - CAS 104632-25-9**

Catalog Number: 104632-25-9  
Molecular Weight: 284.25  
Molecular Formula: C10H17N3S· 2(HCl)  
Description: The HCl salt form of pramipexole, a thiazole derivative, is an agonist of dopamine receptor D2, D3 and D4, especially used as D2-receptor agonist which is one of the most classical targets in the treatment of Parkinson's disease. Ki: 3.9, 2.2, 0.5, and 5.

![Pramipexole structure](https://www.bocsci.com/)

**Cariprazine hydrochloride - CAS 1083076-69-0**

Catalog Number: 1083076-69-0  
Molecular Weight: 463.87  
Molecular Formula: C21H33Cl3N4O  
Description: The hydrochloride salt form of Cariprazine which is a highly selective inhibitor of Dopamine D3 and D2 receptor so that it might be effective as an antipsychotic agent. It has also been found to have moderate selectivity to serotonin 5-HT(1A) receptors. Ki

![Cariprazine structure](https://www.bocsci.com/)

**Rotigotine Hydrochloride - CAS 125572-93-2**

Catalog Number: 125572-93-2  
Molecular Weight: 351.93  
Molecular Formula: C19H26ClNOS  
Description: The hydrochloride salt form of Rotigotine which is a dopamine D2 and D3 receptor agonist and has been shown to be effective in the treatment of Parkinson's disease. IC50: 13 nM and 0.71 nM for D2 and D3 receptor respectively.

![Rotigotine structure](https://www.bocsci.com/)
Iloperidone hydrochloride - CAS 1299470-39-5

**Catalog Number:** 1299470-39-5  
**Molecular Weight:** 465.96  
**Molecular Formula:** C24H28ClFN2O4  
**Description:** The hydrochloride salt form of Iloperidone which is a antagonist of both D2 and 5-HT2 receptor and has been commonly used against schizophrenia. IC50: 10-100 nm and <10nM for D2 and 5-HT2 receptors respectively (Ki).

ST-836 hydrochloride - CAS 1415564-68-9

**Catalog Number:** 1415564-68-9  
**Molecular Weight:** 451.07  
**Molecular Formula:** C23H35ClN4OS  
**Description:** ST-836 hydrochloride, the hydrochloride salt form of verubulin, a dopamine receptor ligand that antiparkinsonian effect.

Fluphenazine DiHCl - CAS 146-56-5

**Catalog Number:** 146-56-5  
**Molecular Weight:** 510.45  
**Molecular Formula:** C22H28F3N3OSCl2  
**Description:** Fluphenazine DiHCl is the dihydrochloride salt preparation of Fluphenazine. It has been used to deliver Fluphenazine to biological systems in studies probing the effects and metabolic fates of this commonly used dopamine antagonist.

Haloperidol hydrochloride - CAS 1511-16-6

**Catalog Number:** 1511-16-6  
**Molecular Weight:** 412.33  
**Molecular Formula:** C21H24Cl2FNO2  
**Description:** Haloperidol hydrochloride is a dopamine antagonist that specifically targets D2-like receptors, with effect to treat schizophrenia, acute psychosis, and delirium. And it is also a non-competitive inhibitor of NOS1 (nNOS). Ki: D2 receptors=12, D3 receptor.
### L-Stepholidine - CAS 16562-13-3

**Catalog Number:** 16562-13-3  
**Molecular Weight:** 327.37  
**Molecular Formula:** C19H21NO4  
**Description:** L-Stepholidine, naturally occured herbal constituent of Stephania intermedia, with the potential to treat neural diseases including dyskinesia, parkinsonism, schizophrenia, is an antagonist D2 receptor with dual affinity for agonist of D1 receptor receptor.

![L-Stepholidine](https://www.bocsci.com/)

### SB269652 - CAS 215802-15-6

**Catalog Number:** 215802-15-6  
**Molecular Weight:** 426.55  
**Molecular Formula:** C27H30N4O  
**Description:** SB269652, an allosteric modulator of D2R, consists of a tetrahydroisoquinoline pharmacophore bound in the OBS and an indole-2-carboxamide moiety bound in a SBP between TM2 and TM7. SB269652 is the first drug-like allosteric modulator of the dopamine D2 receptor.

![SB269652](https://www.bocsci.com/)

### Pardoprunox hydrochloride - CAS 269718-83-4

**Catalog Number:** 269718-83-4  
**Molecular Weight:** 269.73  
**Molecular Formula:** C12H16ClN3O2  
**Description:** Pardoprunox hydrochloride is the hydrochloride salt form of Pardoprunox. Pardoprunox, also called as SLV308 or DU-126891, is a 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.

![Pardoprunox hydrochloride](https://www.bocsci.com/)

### Amisulpride hydrochloride - CAS 81342-13-4

**Catalog Number:** 81342-13-4  
**Molecular Weight:** 405.94  
**Molecular Formula:** C17H28N3O4SCl  
**Description:** Amisulpride hydrochloride could inhibit radioligand binding to native dopamine D2 receptor in membranes from the rat striatum with an IC50 value of 21nM. It has been revealed to displace [3H]raclopride binding in vivo with an ED50 value of 17.3±1.86mg/kg in the rat limbic system. It has been noted to inhibit quinpirole-induced [3H]thymidine with an IC50 value of 22±3nM. It is used to treat psychosis in schizophrenia and episodes of mania in bipolar disorder. It has been approved in February 2002 by FDA.

![Amisulpride hydrochloride](https://www.bocsci.com/)
**PD-118717 - CAS 104229-37-0**

**Catalog Number:** 104229-37-0  
**Molecular Weight:** 464.49  
**Molecular Formula:** C20H24N4O7S  
**Description:** PD-118717 is a putative piperazinyl benzopyranone dopamine autoreceptor(DA) agonist. It has the profile of a DA autoreceptor agonist in neurochemical and neurophysiological tests. It has antipsychotic efficacy without neurological side effect liability in preclinical behavioral tests.

**PD-119819 - CAS 105277-43-8**

**Catalog Number:** 105277-43-8  
**Molecular Weight:** 365.43  
**Molecular Formula:** C21H23N3O3  
**Description:** PD-119819, a heterocyclic piperazine, is an extremely selective DA autoreceptor agonist. It binds [3H]haloperidol in tests in rats. It inhibits spontaneous locomotor activity and inhibits brain DA synthesis or neuronal firing in tests in rats.

**PD-118440 - CAS 108351-90-2**

**Catalog Number:** 108351-90-2  
**Molecular Weight:** 223.33  
**Molecular Formula:** C11H17N3S  
**Description:** PD-118440 is a dopamine antagonist. It was identified as orally active dopamine (DA) agonists with pronounced central nervous system effects in tests including [3H]-haloperidol and [3H]-N-propylnorapomorphine binding. It inhibits striatal DA synthesis, DA neuronal firing and spontaneous locomotor activity.

**PD-120697 - CAS 108351-91-3**

**Catalog Number:** 108351-91-3  
**Molecular Weight:** 221.32  
**Molecular Formula:** C11H15N3S  
**Description:** PD-120697 is a novel dopamine antagonist with central dopamine agonist properties. It was identified as orally active dopamine (DA) agonists with pronounced central nervous system effects in tests including [3H]-haloperidol and [3H]-N-propylnorapomorphine binding. It inhibits striatal DA synthesis, DA neuronal firing and spontaneous locomotor activity.
**A 437203 - CAS 220519-06-2**

**Catalog Number:** 220519-06-2  
**Molecular Weight:** 456.53  
**Molecular Formula:** C20H27F3N6OS  
**Description:** A 437203 is a selective dopamine (DA) D3 receptor antagonist suited to evaluate the physiological role(s) of D3 receptors. A 437203 shows an approximately 100-fold higher in vitro affinity for dopamine D3 versus D2 receptors.

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**Aripiprazole lauroxil - CAS 1259305-29-7**

**Catalog Number:** 1259305-29-7  
**Molecular Weight:** 660.72  
**Molecular Formula:** C36H51Cl2N3O4  
**Description:** Aripiprazole lauroxil is a Dopamine D2 receptor agonist, Serotonin 1A receptor agonist and Serotonin 2A receptor antagonist under the development of Alkermes plc. Aripiprazole lauroxil is applied as long-acting injectable atypical antipsychotic for the treatment of schizophrenia.

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**GSK-598809 - CAS 1310803-30-5**

**Catalog Number:** 1310803-30-5  
**Molecular Weight:** 495.54  
**Molecular Formula:** C23H25F4N5OS  
**Description:** GSK598809 is a selective Dopamine D3 receptor antagonist originated by GlaxoSmithKline. It may decrease the rewarding effects of contextual cues associated with drug intake preclinically and that may reduce drug craving in humans. No recent development for the treatment of Drug abuse, Eating disorders and Smoking withdrawal was reported.

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**ML398 hydrochloride - CAS 1379510-21-0**

**Catalog Number:** 1379510-21-0  
**Molecular Weight:** 357.88  
**Molecular Formula:** C20H24ClN3O  
**Description:** ML398 is potent dopamine 4 receptor antagonist with IC50 value of 130 nM and Ki of 36 nM. It exhibits no activity against the other dopamine receptors tested (>20 μM against D1, D2S, D2L, D3, and D5) ML398 shows >100-fold selectivity for the other dopamine receptors.
### Nolomirole hydrochloride - CAS 138531-51-8

**Catalog Number:** 138531-51-8  
**Molecular Weight:** 369.89  
**Molecular Formula:** C19H28ClNO4  
**Description:** Nolomirole is a Alpha 2 adrenergic receptor and Dopamine D2 receptor agonist. Nolomirole can attenuate the heart failure signs in the monocrotaline-induced congestive heart failure. Phase-III clinical trials for Congestive heart failure in Europe was discontinued.

![Nolomirole hydrochloride](https://www.bocsci.com/)

### Aplindore Fumarate - CAS 189681-71-8

**Catalog Number:** 189681-71-8  
**Molecular Weight:** 426.42  
**Molecular Formula:** C22H22N2O7  
**Description:** Aplindore Fumarate is a partial agonist selective for the dopamine receptor D2 used in the therapeutic treatment of Parkinson Disease and restless legs syndrome.

![Aplindore Fumarate](https://www.bocsci.com/)

### Dexamethasone HCl - CAS 19262-68-1

**Catalog Number:** 19262-68-1  
**Molecular Weight:** 269.77  
**Molecular Formula:** C14H20ClNO2  
**Description:** Dexamethasone HCl, a synthetic sympathomimetic controlled amine with CNS stimulating properties used most commonly in the treatment of attention-deficit disorders in children and for narcolepsy.

![Dexamethasone HCl](https://www.bocsci.com/)

### Sarizotan HCl - CAS 195068-07-6

**Catalog Number:** 195068-07-6  
**Molecular Weight:** 384.88  
**Molecular Formula:** C22H22ClFN2O  
**Description:** Sarizotan, also known as EMD-128130, is a full 5-HT1a agonist and a dopamine D2-like agonist/partial agonist used in clinical trials for the treatment of L-dopa-induced dyskinesia.

![Sarizotan HCl](https://www.bocsci.com/)
**NS-2359 - CAS 195875-68-4**

**Description:** NS-2359, a serotonin-norepinephrine-dopamine reuptake inhibitor, may be able to reduce cocaine withdrawal symptoms, reduce cocaine craving and reduce cocaine-induced euphoria.

**Catalog Number:** 195875-68-4

**Molecular Weight:** 558.675  
**Molecular Formula:** C16H21Cl2NO

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**ABT 925 Fumarate - CAS 220519-07-3**

**Description:** ABT 925 is a selective dopamine D3 receptor antagonist suited to evaluate the physiological role(s) of D3 receptors. ABT 925 shows an approximately 100-fold higher in vitro affinity for dopamine D3 versus D2 receptors.

**Catalog Number:** 220519-07-3

**Molecular Weight:** 572.604  
**Molecular Formula:** C24H31F3N6O5S

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**ABT670 - CAS 630119-43-6**

**Description:** ABT670 is a drug which acts as a potent, superior orally bioavailable dopamine agonist selective for the D4 subtype. It was used as a possible treatment for erectile dysfunction.

**Catalog Number:** 630119-43-6

**Molecular Weight:** 325.41  
**Molecular Formula:** C19H23N3O2

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**Vanoxerine - CAS 67469-69-9**

**Description:** Vanoxerin is a dopamine uptake inhibitor. It is potentially used for the treatment of atrial fibrillation.

**Catalog Number:** 67469-69-9

**Molecular Weight:** 450.56  
**Molecular Formula:** C28H32F2N2O
JPC-211 - CAS 82668-33-5

Catalog Number: 82668-33-5
Molecular Weight: 277.41  Molecular Formula: C17H27NO2
Description: JPC-211 is a selective dopamine D3 receptor agonist.

Ordopidine - CAS 871351-60-9

Catalog Number: 871351-60-9
Molecular Weight: 285.38  Molecular Formula: C14H20FNO2S
Description: Ordopidine is a dopaminergic stabilizer. It can inhibit psychostimulant-induced hyperactivity and stimulate behaviour in states of hypoactivity. In May 2016, Phase-I clinical trials in Parkinson's disease in Germany was discontinued.