

# Pardoprunox

Catalog No: tcsc4378



## Available Sizes

**Size:** 5mg

**Size:** 10mg

**Size:** 50mg

**Size:** 100mg



## Specifications

**CAS No:**

269718-84-5

**Formula:**

$C_{12}H_{15}N_3O_2$

**Pathway:**

GPCR/G Protein;Neuronal Signaling;GPCR/G Protein;Neuronal Signaling;GPCR/G Protein

**Target:**

Dopamine Receptor;Dopamine Receptor;Adrenergic Receptor;5-HT Receptor;5-HT Receptor

**Purity / Grade:**

>98%

**Solubility:**

10 mM in DMSO

**Alternative Names:**

SLV-308;DU-126891

**Observed Molecular Weight:**

233.27

## Product Description

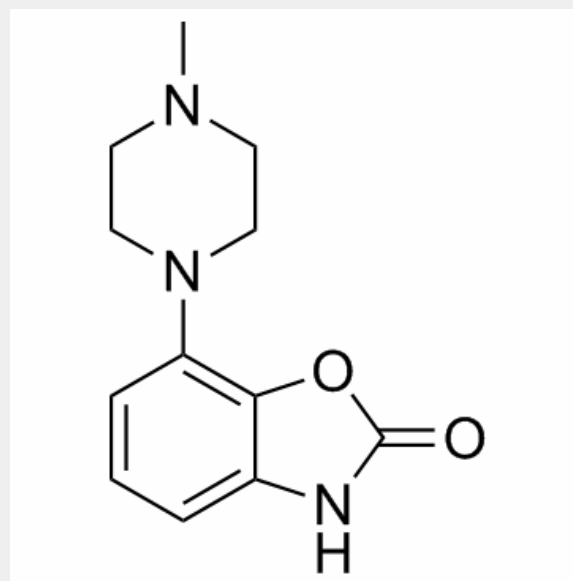
Pardoprinox(SLV-308) is a novel partial dopamine D2 and D3 receptor agonist and serotonin 5-HT1A receptor agonist; D2 (pKi = 8.1) and D3 receptor (pKi = 8.6) partial agonist (IA = 50% and 67%, respectively) and 5-HT1A receptor (pKi = 8.5) full agonist (IA = 100%); also binds to D4 (pKi = 7.8),  $\alpha$ 1-adrenergic (pKi = 7.8),  $\alpha$ 2-adrenergic (pKi = 7.4), and 5-HT7 receptors (pKi = 7.2) with lower affinity.

IC50 value:

Target:

in vitro: SLV308 acted as a potent but partial D(2) receptor agonist ( $pEC_{50}$  = 8.0 and  $pA_{2}$  = 8.4) with an efficacy of 50% on forskolin stimulated cAMP accumulation. At human recombinant dopamine D(3) receptors, SLV308 acted as a partial agonist in the induction of [(35)S]GTPgammaS binding (intrinsic activity of 67%;  $pEC_{50}$  = 9.2) and antagonized the dopamine induction of [(35)S]GTPgammaS binding ( $pA_{2}$  = 9.0). SLV308 acted as a full 5-HT(1) (A) receptor agonist on forskolin induced cAMP accumulation at cloned human 5-HT(1) (A) receptors but with low potency ( $pEC_{50}$  = 6.3) [1].

in vivo: Unified PD Rating Scale (UPDRS)-Motor score was improved in pardoprinox-treated patients (overall mean dose 23.8 mg/d; -7.3 points), as compared with placebo (-3.0 points;  $P$  = 0.0001), from baseline to end point. At end point, there were more responders (> or = 30% reduction in UPDRS-Motor score) in the pardoprinox group (50.7%) than in the placebo group (15.7%;  $P$



All products are for RESEARCH USE ONLY. Not for diagnostic & therapeutic purposes!