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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Pardoprunox hydrochloride

Cat. No.: HY-14958A

CAS No.: 269718-83-4

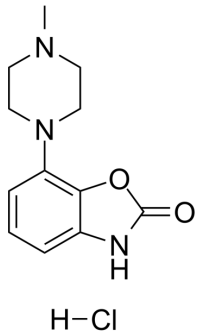
Molecular Formula: $C_{12}H_{16}ClN_3O_2$

Molecular Weight: 269.73

Target: 5-HT Receptor; Adrenergic Receptor; Dopamine Receptor

Pathway: GPCR/G Protein; Neuronal Signaling

Storage: 4°C, sealed storage, away from moisture
* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

DMSO : 150 mg/mL (556.11 mM; Need ultrasonic)
H_2O : 25 mg/mL (92.69 mM; Need ultrasonic)

Preparing Stock Solutions

Concentration \ Solvent \ Mass	1 mg	5 mg	10 mg
1 mM	3.7074 mL	18.5371 mL	37.0741 mL
5 mM	0.7415 mL	3.7074 mL	7.4148 mL
10 mM	0.3707 mL	1.8537 mL	3.7074 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
   Solubility: ≥ 7.5 mg/mL (27.81 mM); Clear solution
2. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
   Solubility: ≥ 7.5 mg/mL (27.81 mM); Clear solution
3. Add each solvent one by one: 10% DMSO >> 90% corn oil
   Solubility: ≥ 7.5 mg/mL (27.81 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

Pardoprunox (SLV-308) hydrochloride is a partial dopamine D2 and D3 receptor partial agonist and a serotonin 5-HT1A receptor agonist, with pEC_{50}s of 8, 9.2, and 6.3, respectively[1].

IC_{50} & Target

5-HT_{1A} Receptor	D_2 Receptor	D_3 Receptor
6.3 (pEC50)	8 (pEC50)	9.2 (pEC50)

In Vitro

Pardoprunox (SLV-308) hydrochloride acts as a potent but partial D2 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 D3 receptors, Pardoprunox

hydrochloride acts 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). Pardoprunox hydrochloride acts as a full 5-HT1A receptor agonist on forskolin induced cAMP accumulation at cloned human 5-HT1A receptors but with low potency (pEC_{50}=6.3)[1].

MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Glennon JC, et al. In vitro characterization of SLV308 (7-[4-methyl-1-piperazinyl]-2(3H)-benzoxazolone, monohydrochloride): a novel partial dopamine D2 and D3 receptor agonist and serotonin 5-HT1A receptor agonist. Synapse. 2006 Dec 15;60(8):599-608.

[2]. Jones CA, et al. An in vivo pharmacological evaluation of pardoprunox (SLV308)--a novel combined dopamine D(2)/D(3) receptor partial agonist and 5-HT(1A) receptor agonist with efficacy in experimental models of Parkinson's disease. Eur Neuropsychopharmaco

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