Pardoprunox

Cat. No.: HY-14958

CAS No.: 269718-84-5

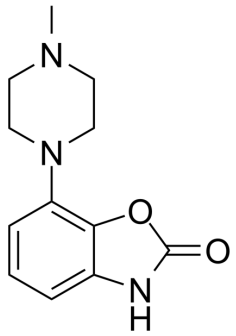
Molecular Formula: $C_{12}H_{15}N_3O_2$

Molecular Weight: 233.27

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

Pathway: GPCR/G Protein; Neuronal Signaling

Storage: Please store the product under the recommended conditions in the Certificate of Analysis.



BIOLOGICAL ACTIVITY

Description	Pardoprunox (SLV-308) 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 6.3 (pEC50)	D_2 Receptor 8 (pEC50)	D_3 Receptor 9.2 (pEC50)
In Vitro	Pardoprunox (SLV-308) 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 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 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]. Bronzova J, et al. Double-blind study of pardoprunox, a new partial dopamine agonist, in early Parkinson's disease. Mov Disord. 2010 Apr 30;25(6):738-46.

[3]. Bétry C, et al. In vivo effects of pardoprunox (SLV308), a partial D?/D? receptor and 5-HT1A receptor agonist, on rat dopamine and serotonin neuronal activity. Synapse. 2011 Oct;65(10):1042-51.

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