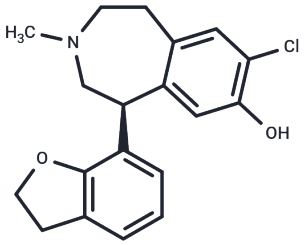
Data Sheet (Cat.No.T12288)

TargetMol

Odapipam

Chemical Properties



CAS No. : 131796-63-9

Formula: C19H20ClNO2

Molecular Weight: 329.82

Storage: Powder: -20°C for 3 years | In solvent: -80°C for 1 year
Actual storage temperature shall be subject to the COA.

Biological Description

Description	Odapipam is a selective and high affinity antagonist of benzazepine dopamine D1 receptor (Kd of 0.18 nM).
Targets(IC50)	Dopamine Receptor
In vivo	The metabolic pathway of Odapipam in phenobarbital-induced rat liver microsomes has been examined, revealing the formation of five distinct metabolites during its incubation. Analysis of the electron-ionization (EI+) mass spectra identified these metabolites as N-desmethyl-Odapipam, 1-hydroxy-Odapipam, two isomers of 3′-hydroxy-Odapipam, and a dehydrogenated metabolite within the dihydrobenzofuran moiety[1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.032 mL	15.1598 mL	30.3196 mL
5 mM	0.6064 mL	3.032 mL	6.0639 mL
10 mM	0.3032 mL	1.516 mL	3.032 mL
50 mM	0.0606 mL	0.3032 mL	0.6064 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

J. VANGGAARD ANDERSEN, et al. Normal-phase liquid chromatography-particle-beam mass spectrometry in drug metabolism studies of the dopamine receptor antagonist Odapipam and the muscarine M1 receptor agonist Xanomeline. Xenobiotica. 1997, 27: 901-912.

Nielsen EB, et al. Dopamine receptor occupancy in vivo: behavioral correlates using NNC-112, NNC-687 and NNC-756, new selective dopamine D1 receptor antagonists. Eur J Pharmacol. 1992 Aug 14;219(1):35-44.

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