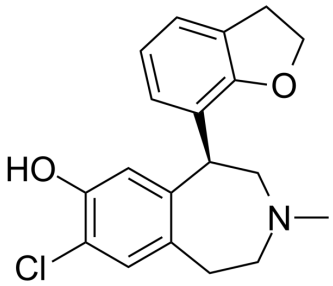
Odapipam

Cat. No.:	HY-129059
CAS No.:	131796-63-9
Molecular Formula:	$C_{19}H_{20}ClNO_2$
Molecular Weight:	329.82
Target:	Dopamine Receptor
Pathway:	GPCR/G Protein; Neuronal Signaling
Storage:	Powder -20°C 3 years 4°C 2 years In solvent -80°C 6 months -20°C 1 month



BIOLOGICAL ACTIVITY

Description	Odapipam (NNC 756) is a selective, high affinity and benzazepine dopamine D_1 receptor antagonist with a K_d of 0.18 nM. Odapipam is also a superior positron emission tomography (PET) radiotracer[1][2].
IC_{50} & Target	Dopamine D_1 receptor[1]
In Vivo	The metabolism of Odapipam has been studied with phenobarbital-induced rat liver microsomes. During the incubation of Odapipam, five different metabolites are formed. The electron-ionization (EI^+) mass spectra of the metabolites indicated the formation of N-desmethyl-Odapipam, 1-hydroxy-Odapipam, the two isomers of 3′-hydroxy-Odapipam and a metabolite which is dehydrogenated in the dihydrobenzofuran moiety[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

REFERENCES

[1]. Abi-Dargham A, et al. PET studies of binding competition between endogenous dopamine and the D1 radiotracer [11C]NNC 756. Synapse. 1999 May;32(2):93-109.

[2]. 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.

[3]. 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.

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