

Product Data Sheet

Product Name: Odapipam

Cat. No.: GC38405

Chemical Properties

Cas. No. 131796-63-9

SMILES OC1=C(Cl)C=C2CCN(C)C[C@H](C3=C(OCC4)C4=CC=C3)C2=C1

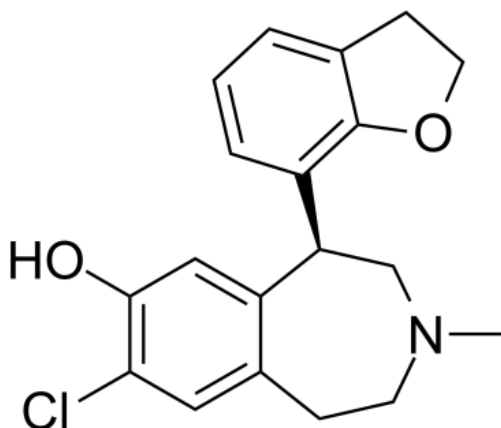
Formula $C_{19}H_{20}ClNO_2$ M.Wt 329.82

Solubility Soluble in DMSO Storage Store at -20°C

General tips For obtaining a higher solubility, please warm the tube at 37 °C and shake it in the ultrasonic bath for a while. Stock solution can be stored below -20°C for several months.

Shipping Condition Evaluation sample solution: ship with blue ice All other available size: ship with RT, or blue ice upon request.

Structure



Background

Odapipam (NNC 756) is a selective, high affinity and benzazepine dopamine D1 receptor antagonist with a K_d of 0.18 nM. Odapipam is also a superior positron emission tomography (PET) radiotracer[1][2].

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-

Caution: Product has not been fully validated for medical applications. For research use only.

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Odapipam, the two isomers of 3'-hydroxy-Odapipam and a metabolite which is dehydrogenated in the dihydrobenzofuran moiety[3].

[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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