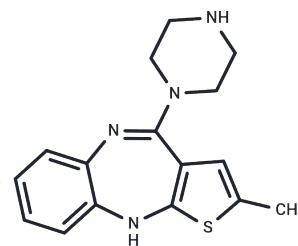


N-desmethyl Olanzapine

Chemical Properties

CAS No. :	161696-76-0
Formula:	C16H18N4S
Molecular Weight:	298.41
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	N-desmethyl Olanzapine is a metabolite of the atypical antipsychotic compound Olanzapine, which is formed through the oxidative metabolism of olanzapine by the cytochrome 450 (CYP) isoenzyme CYP1A2.
Targets(IC50)	Others,Endogenous Metabolite,Cytochromes P450,Drug Metabolite

Solubility Information

Solubility	DMSO: 30 mg/mL (100.53 mM),Sonication is recommended. DMF: 30 mg/mL (100.53 mM),Sonication is recommended. Ethanol: 10 mg/mL (33.51 mM),Sonication is recommended. DMSO:PBS (pH 7.2) (1:4): 0.2 mg/mL (0.67 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.3511 mL	16.7555 mL	33.5109 mL
5 mM	0.6702 mL	3.3511 mL	6.7022 mL
10 mM	0.3351 mL	1.6755 mL	3.3511 mL
50 mM	0.067 mL	0.3351 mL	0.6702 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

Ring BJ, et al. Identification of the human cytochromes P450 responsible for the in vitro formation of the major oxidative metabolites of the antipsychotic agent olanzapine. J Pharmacol Exp Ther. 1996;276(2):658-666.

Chiu JA, et al. Analysis and pharmacokinetics of olanzapine (LY170053) and two metabolites in rat plasma using reversed-phase HPLC with electrochemical detection. J Pharm Biomed Anal. 1996;14(5):609-615.

Skogh E, et al. Therapeutic drug monitoring data on olanzapine and its N-demethyl metabolite in the naturalistic clinical setting. Ther Drug Monit. 2002;24(4):518-526.

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