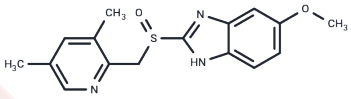
Data Sheet (Cat.No.T10138)

TargetMol

4-Desmethoxy Omeprazole

Chemical Properties



CAS No. : 110374-16-8

Formula: C16H17N3O2S

Molecular Weight: 315.39

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	4-Desmethoxy Omeprazole, the active metabolite of Omeprazole, acts as a proton pump inhibitor (PPI) and demonstrates competitive inhibition of CYP2C19 activity with a Ki of 2 to 6 μM.
Targets(IC50)	Drug Metabolite

Solubility Information

Solubility	DMSO: 27.5 mg/mL (87.19 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.1707 mL	15.8534 mL	31.7068 mL
5 mM	0.6341 mL	3.1707 mL	6.3414 mL
10 mM	0.3171 mL	1.5853 mL	3.1707 mL
50 mM	0.0634 mL	0.3171 mL	0.6341 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

Li XQ, et al. Comparison of inhibitory effects of the proton pump-inhibiting drugs omeprazole, esomeprazole, lansoprazole, pantoprazole, and rabeprazole on human cytochrome P450 activities. Drug Metab Dispos. 2004 Aug;32(8):821-7.

Jonkers D, et al. Omeprazole inhibits growth of gram-positive and gram-negative bacteria including Helicobacter pylori in vitro. J Antimicrob Chemother. 1996 Jan;37(1):145-50.

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