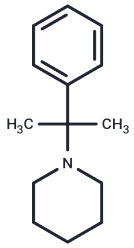
Data Sheet (Cat.No.T7788)

TargetMol

2-Phenyl-2-(1-piperidinyl)propane

Chemical Properties



CAS No. : 92321-29-4

Formula: C14H21N

Molecular Weight: 203.32

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	2-Phenyl-2-(1-piperidinyl)propane (PPP), an analog of phencyclidine, is a chemical compound.
Targets(IC50)	Others,Cytochromes P450
In vivo	2-Phenyl-2-(1-piperidinyl)propane (PPP) inactivated the 7-(benzyloxy)resorufin O-dealkylation activity of liver microsomes obtained from phenobarbital-induced rats with a K(I) of 11 microM.?The 7-ethoxy-4-(trifluoromethyl)coumarin O-deethylation activity of purified rat liver P450 2B1 and expressed human P450 2B6 was inactivated by PPP in a reconstituted system containing NADPH-cytochrome P450 reductase and lipid[1]

Solubility Information

Solubility	DMSO: 30 mg/mL (147.55 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.9184 mL	24.5918 mL	49.1836 mL
5 mM	0.9837 mL	4.9184 mL	9.8367 mL
10 mM	0.4918 mL	2.4592 mL	4.9184 mL
50 mM	0.0984 mL	0.4918 mL	0.9837 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

Chun J , Kent U M , Moss R M , et al. Mechanism-based inactivation of cytochromes P450 2B1 and P450 2B6 by 2-phenyl-2-(1-piperidinyl) propane[J]. Drug Metabolism & Disposition, 2000, 28(8):905-911.
Walsky R L , Obach R S . A Comparison of 2-Phenyl-2-(1-piperidinyl)propane (PPP), 1,1',1''-Phosphinothioylidynetrisaziridine (ThioTEPA), Clopidogrel, and Ticlopidine as Selective Inactivators of Human Cytochrome P450 2B6[J]. Drug Metabolism and Disposition, 2007, 35(11):2053-2059.

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