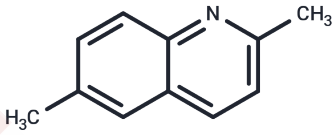
Data Sheet (Cat.No.T37784)

TargetMol

2,6-Dimethylquinoline

Chemical Properties



CAS No. : 877-43-0

Formula: C11H11N

Molecular Weight: 157.21

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	2,6-Dimethylquinoline is a natural product extracted from the roots of Peucedantu praeruptorum. 2,6-Dimethylquinoline is an inhibitor of CYP1A2 and CYP2B6 with an IC50 of 3.3 and 480 μM, respectively.
Targets(IC50)	Cytochromes P450

Solubility Information

Solubility	DMSO: 50 mg/mL (318.05 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (12.72 mM),Sonication is recommended. *Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	6.3609 mL	31.8046 mL	63.6092 mL
5 mM	1.2722 mL	6.3609 mL	12.7218 mL
10 mM	0.6361 mL	3.1805 mL	6.3609 mL
50 mM	0.1272 mL	0.6361 mL	1.2722 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

Laura E Korhonen, et al. Predictive three-dimensional quantitative structure-activity relationship of cytochrome P450 1A2 inhibitors. J Med Chem. 2005 Jun 2;48(11):3808-15.

L E Korhonen, et al. New potent and selective cytochrome P450 2B6 (CYP2B6) inhibitors based on three-dimensional quantitative structure-activity relationship (3D-QSAR) analysis. Br J Pharmacol. 2007 Apr;150(7):932-42.

Cun Zhang, et al. Studies on chemical constituents from roots of Peucedanum praeruptorum II. Zhongguo Zhong Yao Za Zhi. 2006 Aug;31(16):1333-5.

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