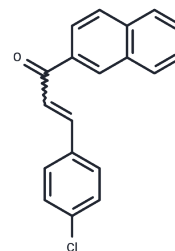


CYP1B1-IN-7

Chemical Properties

CAS No. : 52601-58-8
 Formula: C₁₉H₁₃ClO
 Molecular Weight: 292.76
 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	CYP1B1-IN-7 is a selective and potent CYP1B1 inhibitor showing cytotoxic effects in docetaxel-resistant CYP1B1 overexpressing MCF-7 cell lines, and can be used in synergistic treatment of cancer with anticancer compounds.
Targets(IC50)	Cytochromes P450

Solubility Information

Solubility	DMSO: 15 mg/mL (51.24 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Corn Oil: 1.5 mg/mL (5.12 mM), Sonication is recommended. <i>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.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4158 mL	17.0788 mL	34.1577 mL
5 mM	0.6832 mL	3.4158 mL	6.8315 mL
10 mM	0.3416 mL	1.7079 mL	3.4158 mL
50 mM	0.0683 mL	0.3416 mL	0.6832 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

Raju B, et al. Scaffold hopping for designing of potent and selective CYP1B1 inhibitors to overcome docetaxel resistance: synthesis and evaluation. J Biomol Struct Dyn. 2024 Feb 14:1-19.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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