

DMU-2139

Chemical Properties

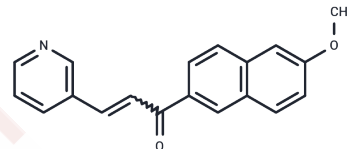
CAS No. : 104890-70-2

Formula: C₁₉H₁₅NO₂

Molecular Weight: 289.33

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	DMU2139 is a specific CYP1B1 inhibitor (CYP1B1 and CYP1A1 with IC ₅₀ of 9 nM and 795 nM, respectively).
Targets(IC ₅₀)	Cytochromes P450

Solubility Information

Solubility	DMSO: 11 mg/mL (38.02 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 (6.91 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	3.4563 mL	17.2813 mL	34.5626 mL
5 mM	0.6913 mL	3.4563 mL	6.9125 mL
10 mM	0.3456 mL	1.7281 mL	3.4563 mL
50 mM	0.0691 mL	0.3456 mL	0.6913 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

Horley N J , Beresford K J M , Chawla T , et al. Discovery and characterization of novel CYP1B1 inhibitors based on heterocyclic chalcones: Overcoming cisplatin resistance in CYP1B1-overexpressing lines[J]. European Journal of Medicinal Chemistry, 2017, 129:159-174.

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