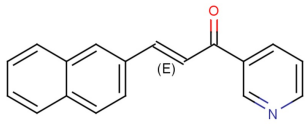
Data Sheet (Cat.No.T11065)

DMU2105

Chemical Properties



CAS No.:	1821143-79-6
Formula:	C18H13NO
Molecular Weight:	259.3
Appearance:	N/A
Storage:	0-4℃ for short term (days to weeks), or -20℃ for long term (months).

Biological Description

Description	DMU2105 is a potent and specific CYP1B1 inhibitor, with IC50s of 10 nM and 742 nM for CYP1B1 and CYP1A1, respectively.
Targets(IC_{50})	CYP1B1: 10 nM CYP1A1: 742 nM
In vitro	DMU2105 is 74 and 120 times more selective for CYP1B1 than CYP1A1 and CYP1A2. However, in the presence of DMU2105, the EC50 decreased to 1 μM, indicating that the cells suffered from toxicity, which may be mediated by CYP1B1 inhibition. The untransfected cells (HEK293: pcDNA3.1), when treated with cisplatin and DMU2105 (10×IC50), did not have a significant decrease in cisplatin EC50 (8.5 μM±0.9).

Solubility Information

Solubility	DMSO: 53.33 mg/mL (205.67 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.857 mL	19.283 mL	38.565 mL
5 mM	0.771 mL	3.857 mL	7.713 mL
10 mM	0.386 mL	1.928 mL	3.857 mL
50 mM	0.077 mL	0.386 mL	0.771 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 ℃ for 6 months; - 20 ℃ for 1 month. Please use it as soon as possible.

Reference

1. Horley NJ, et al. Discovery and characterization of novel CYP1B1 inhibitors based on heterocyclic chalcones: Overcoming cisplatin resistance in CYP1B1-overexpressing lines. Eur J Med Chem. 2017 Mar 31;129:159-174.

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