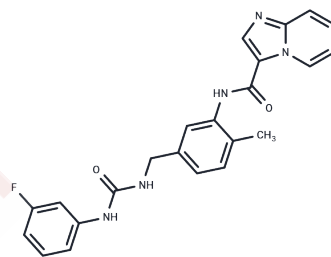


DDR Inhibitor

Chemical Properties

CAS No. : 1644069-80-6
Formula: C₂₃H₂₀FN₅O₂
Molecular Weight: 417.44
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	DDR inhibitor is a potent discoidin domain receptor (DDR) inhibitor. The IC ₅₀ of DDR2 is 3.3 nM, and DDR1 has 53% inhibition at 1.5 nM.
Targets(IC ₅₀)	Discoidin Domain Receptor (DDR)
In vitro	DDR inhibitor is an effective DDR inhibitor. The IC ₅₀ of DDR2 is 3.3 nM, which has 53% inhibition on DDR1 at 1.5 nM.

Solubility Information

Solubility	DMSO: 150 mg/mL (359.33 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 (4.79 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	2.3956 mL	11.9778 mL	23.9555 mL
5 mM	0.4791 mL	2.3956 mL	4.7911 mL
10 mM	0.2396 mL	1.1978 mL	2.3956 mL
50 mM	0.0479 mL	0.2396 mL	0.4791 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

Gordon Saxty, et al. Imidazo-condensed bicycles as inhibitors of discoidin domain receptors (ddrs)

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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