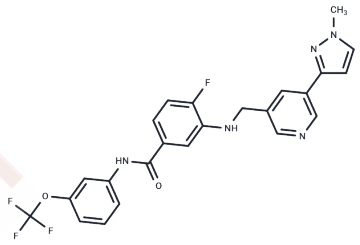
Data Sheet (Cat.No.T7862)

TargetMol

VU6015929

Chemical Properties



CAS No. : 2442597-56-8

Formula: C24H19F4N5O2

Molecular Weight: 485.43

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	VU6015929 is an inhibitor of active dual discoidin domain receptor 1/2 (DDR1/2)(IC50s of 4.67 nM and 7.39 nM, respectively).
Targets(IC50)	Discoidin Domain Receptor (DDR)
In vitro	VU6015929 potently blocks collagen-induced DDR1 activation and collagen-IV production, suggesting DDR1 inhibition as an exciting target for antifibrotic therapy[1].

Solubility Information

Solubility	DMSO: 127.5 mg/mL (262.65 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 10 mg/mL (20.6 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (20.6 mM),Solution. *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	2.060 mL	10.3001 mL	20.6003 mL
5 mM	0.412 mL	2.060 mL	4.1201 mL
10 mM	0.206 mL	1.030 mL	2.060 mL
50 mM	0.0412 mL	0.206 mL	0.412 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

Jeffries DE, Borza CM, Blobaum AL,et al.Discovery of VU6015929: A Selective Discoidin Domain Receptor 1/2 (DDR1/2) Inhibitor to Explore the Role of DDR1 in Antifibrotic Therapy[1].ACS Med Chem Lett. 2019 Nov 25 ;11(1): 29-33.