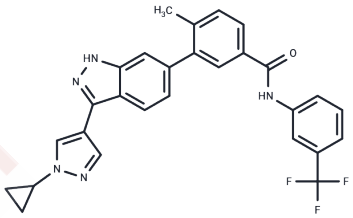
Data Sheet (Cat.No.T11279)

TargetMol

FGFR1/DDR2 inhibitor 1

Chemical Properties



CAS No. : 2308497-58-5

Formula: C28H22F3N5O

Molecular Weight: 501.5

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	FGFR1/DDR2 inhibitor 1 is an inhibitor of discoidin domain receptor 2 (DDR2) and fibroblast growth factor receptor 1 (FGFR1), with IC50 values of 31.1 nM, 108.4 nM, and 3.2 nM for FGFR1, KG-1, and DDR2, respectively.
Targets(IC50)	Discoidin Domain Receptor (DDR),FGFR

Solubility Information

Solubility	DMSO: 150 mg/mL (299.1 mM),Sonication is recommended. H2O: < 0.1 mg/mL (insoluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 10 mg/mL (19.94 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 10 mg/mL (19.94 mM),Suspension. 10% DMSO+90% Corn Oil: 3.3 mg/mL (6.58 mM),Sonication is recommended. *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	1.994 mL	9.9701 mL	19.9402 mL
5 mM	0.3988 mL	1.994 mL	3.988 mL
10 mM	0.1994 mL	0.997 mL	1.994 mL
50 mM	0.0399 mL	0.1994 mL	0.3988 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

Wang Q, et al. Discovery and optimization of a series of 3-substituted indazole derivatives as multi-target kinase inhibitors for the treatment of lung squamous cell carcinoma. Eur J Med Chem. 2019 Feb 1;163:671-689.