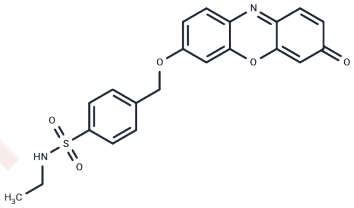
Data Sheet (Cat.No.T17258)

TargetMol

WRG-28

Chemical Properties



CAS No. : 1913291-02-7

Formula: C21H18N2O5S

Molecular Weight: 410.44

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	WRG-28 is a potent and selective, allosteric discoidin domain receptor 2 (ddr2) inhibitor (IC50 : 230 nM)
Targets(IC50)	Discoidin Domain Receptor (DDR)
In vitro	WRG-28 is a selective, extracellularly acting small molecule inhibitor of DDR2 that uniquely inhibits receptor-ligand interactions via allosteric modulation of the receptor.? By targeting DDR2, WRG-28 inhibits tumor invasion and migration, as well as tumor-supporting roles of the stroma, and inhibits metastatic breast tumor cell colonization in the lungs.

Solubility Information

Solubility	DMSO: 15 mg/mL (36.55 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: 1 mg/mL (2.44 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	2.4364 mL	12.182 mL	24.3641 mL
5 mM	0.4873 mL	2.4364 mL	4.8728 mL
10 mM	0.2436 mL	1.2182 mL	2.4364 mL
50 mM	0.0487 mL	0.2436 mL	0.4873 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

Grither WR, et al. Inhibition of tumor-microenvironment interaction and tumor invasion by small-molecule allosteric inhibitor of DDR2 extracellular domain. Proc Natl Acad Sci U S A. 2018 Aug 14;115(33):E7786-E7794.