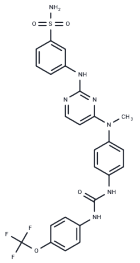
Data Sheet (Cat.No.T11520)

TargetMol

GW806742X

Chemical Properties



CAS No. : 579515-63-2

Formula: C25H22F3N7O4S

Molecular Weight: 573.55

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	GW806742X is an inhibitor of Mixed Lineage Kinase Domain-Like protein (MLKL) which binds the MLKL pseudokinase domain (Kd: 9.3 μM) with anti-necroptosis activity. GW806742X has activity against VEGFR2.
Targets(IC50)	MLK,VEGFR
In vitro	GW806742X (1 μM) retards MLKL translocation to the membrane.GW806742X (0.1-10000 nM) rescues 50% of wild-type mouse dermal fibroblasts (MDFs) from TSQ-induced necroptosis with an IC50< 50 nM when 1 ng/mL TNF is used.

Solubility Information

Solubility	DMSO: 255 mg/mL (444.6 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: 10 mg/mL (17.44 mM),Solution. 10% DMSO+90% Saline: < 10 mg/mL (17.44 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. *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	1.7435 mL	8.7176 mL	17.4353 mL
5 mM	0.3487 mL	1.7435 mL	3.4871 mL
10 mM	0.1744 mL	0.8718 mL	1.7435 mL
50 mM	0.0349 mL	0.1744 mL	0.3487 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

Hildebrand JM, et al. Activation of the pseudokinase MLKL unleashes the four-helix bundle domain to induce membrane localization and necroptotic cell death. Proc Natl Acad Sci U S A. 2014 Oct 21;111(42):15072-7.
Yan B, et al. Discovery of a new class of highly potent necroptosis inhibitors targeting the mixed lineagekinase domain-like protein. Chem Commun (Camb). 2017 Mar 28;53(26):3637-3640.