

GSK481

Chemical Properties

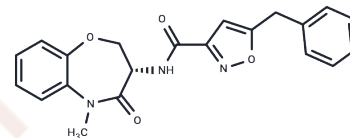
CAS No. : 1622849-58-4

Formula: C₂₁H₁₉N₃O₄

Molecular Weight: 377.39

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	GSK481 (GSK'481) is a RIP1(Receptor Interacting Protein Kinase1) inhibitor. Inhibition of RIP1 has been shown to hinder cell necrotic death.
Targets(IC50)	RIP kinase
In vitro	GSK481 can inhibit RIP1 WT S166 phosphorylation in human vs mouse plasmids overexpressed in HEK293T cells. GSK481 has approximately equivalent RIP1 FP potencies against human and cynomolgus monkey RIP1 but was >100-fold less potent against nonprimate RIP[1].

Solubility Information

Solubility	DMSO: 72.5 mg/mL (192.11 mM),Sonication is recommended. Ethanol: < 1 mg/mL (insoluble or slightly soluble), H ₂ O: < 1 mg/mL (insoluble or slightly soluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+90% Saline: < 7.25 mg/mL (19.21 mM),Lower concentrations may be soluble, but exact solubility limit is unknown. 10% DMSO+40% PEG300+5% Tween 80+45% Saline: 7.25 mg/mL (19.21 mM),Solution. <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	2.6498 mL	13.2489 mL	26.4978 mL
5 mM	0.530 mL	2.6498 mL	5.2996 mL
10 mM	0.265 mL	1.3249 mL	2.6498 mL
50 mM	0.053 mL	0.265 mL	0.530 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

Harris PA, et al. J Med Chem. 2016, 59(5):2163-2178.

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