

GSK3145095

Chemical Properties

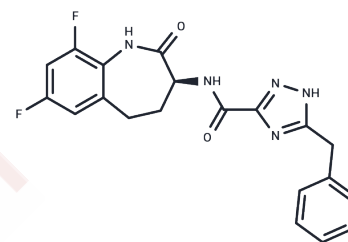
CAS No. : 1622849-43-7

Formula: C₂₀H₁₇F₂N₅O₂

Molecular Weight: 397.38

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	GSK3145095 is an orally active inhibitor of RIPK1 with IC ₅₀ of 5 nM, with potential immunomodulatory activities and antineoplastic.
Targets(IC ₅₀)	RIP kinase
In vitro	GSK3145095 potently binds to RIP1 with exquisite kinase specificity and has excellent activity in blocking RIP1 kinase-dependent cellular responses. Highlighting its potential as a novel cancer therapy, the inhibitor was also able to promote a tumor suppressive T cell phenotype in pancreatic adenocarcinoma organ cultures.

Solubility Information

Solubility	DMSO: 250 mg/mL (629.12 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: 5 mg/mL (12.58 mM), Sonication is recommended. <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	2.5165 mL	12.5824 mL	25.1648 mL
5 mM	0.5033 mL	2.5165 mL	5.033 mL
10 mM	0.2516 mL	1.2582 mL	2.5165 mL
50 mM	0.0503 mL	0.2516 mL	0.5033 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. Identification of a RIP1 Kinase Inhibitor Clinical Candidate (GSK3145095) for the Treatment of Pancreatic Cancer. ACS Med Chem Lett. 2019 May 9;10(6):857-862.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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