

GSK2593074A

Chemical Properties

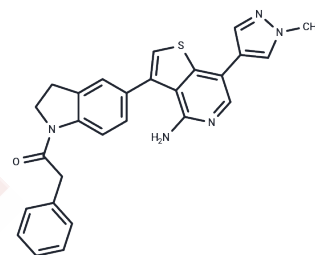
CAS No. : 1337531-06-2

Formula: C₂₇H₂₃N₅O₅

Molecular Weight: 465.57

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	GSK2593074A (GSK'074) is a programmed necrosis inhibitor that displays inhibitory effects on RIP1 and RIP3.
Targets(IC50)	RIP kinase,TNF
In vitro	GSK2593074A (GSK'074) (0.01, 0.1, 1, 10, and 100 nM; 6 h) fully prevents necroptosis across various stimuli in both human and murine cells with IC ₅₀ ~3 nM, including MOVAS cells and L929 cells.[1]
In vivo	GSK2593074A (GSK'074) (0.93 mg/kg/day; i.p.; 14 or 28 days; mice) show significantly alleviated aneurysm formation, reflected by a much smaller aortic dilatation (36.28±5.76%; P<0.05) as well as a reduced abdominal aortic aneurysm (AAA) incidence (from 83.3 to 16.7%). GSK2593074A significantly decreases the extent of aortic expansion (27.36±8.25%; P<0.05). Inhibited aneurysm formation in mouse models of aneurysms.[1]

Solubility Information

Solubility	DMSO: 41.67 mg/mL (89.5 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: 2 mg/mL (4.3 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	2.1479 mL	10.7395 mL	21.479 mL
5 mM	0.4296 mL	2.1479 mL	4.2958 mL
10 mM	0.2148 mL	1.074 mL	2.1479 mL
50 mM	0.043 mL	0.2148 mL	0.4296 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

Zhou T, et al. Identification of a novel class of RIP1/RIP3 dual inhibitors that impede cell death and inflammation in mouse abdominal aortic aneurysm models. *Cell Death Dis.* 2019 Mar 6;10(3):226.

Khoury MK, et al. GSK2593074A blocks progression of existing abdominal aortic dilation. *JVS Vasc Sci.* 2020;1:123-135.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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