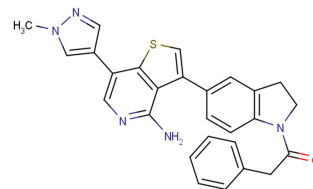


GSK2593074A

Chemical Properties

CAS No.:	1337531-06-2
Formula:	C ₂₇ H ₂₃ N ₅ O ₅
Molecular Weight:	465.57
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



Biological Description

Description	GSK2593074A is a necroptosis inhibitor for dual-targeting to both RIP1 and RIP3.
Targets(IC ₅₀)	RIP1: None
In vitro	In multiple cell types including mouse SMCs, fibroblasts (L929), bone marrow-derived macrophages (BMDM), and human colon epithelial cells (HT29), GSK2593074A inhibits necroptosis (IC ₅₀ ~3 nM). GSK2593074A (0.01, 0.1, 1, 10, and 100 nM; 6 hours for MOVAS cells; 3 hours for L929 cells) completely rescues cells from necroptosis under different stimuli in both human and murine cells at IC ₅₀ ~3 nM.
In vivo	GSK2593074A significantly decreases the extent of aortic expansion. GSK2593074A is administrated to Apoe ^{-/-} mice immediately following pump implantation. Compared to the DMSO group, GSK2593074A-treated mice show significantly alleviated aneurysm formation, reflected by a much smaller aortic dilatation as well as a reduced abdominal aortic aneurysm incidence (from 83.3 to 16.7%).

Solubility Information

Solubility	DMSO: 41.67 mg/mL (89.50 mM) (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.148 mL	10.74 mL	21.479 mL
5 mM	0.43 mL	2.148 mL	4.296 mL
10 mM	0.215 mL	1.074 mL	2.148 mL
50 mM	0.043 mL	0.215 mL	0.43 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. 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.

Inhibitors · Natural Compounds · Compound Libraries

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Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481