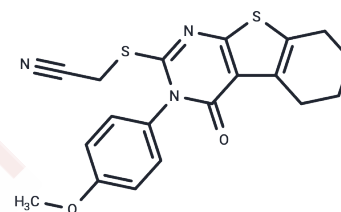


Necrostatin-5

Chemical Properties

CAS No. :	337349-54-9
Formula:	C ₁₉ H ₁₇ N ₃ O ₂ S ₂
Molecular Weight:	383.49
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	Necrostatin-5 (Nec-5) is a selective RIP1 kinase inhibitor and cell necrosis inhibitor that prevents the death of Fadd-deficient Jurkat cells treated with TNF- α , with an EC ₅₀ of 240 nM.
Targets(IC ₅₀)	Necroptosis, RIP kinase

Solubility Information

Solubility	DMSO: 4.5 mg/mL (11.73 mM), Sonication and heating to 60°C are recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.6076 mL	13.0381 mL	26.0763 mL
5 mM	0.5215 mL	2.6076 mL	5.2153 mL
10 mM	0.2608 mL	1.3038 mL	2.6076 mL
50 mM	0.0522 mL	0.2608 mL	0.5215 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

González-Juarbe N, Gilley RP, Hinojosa CA, et al. Pore-Forming Toxins Induce Macrophage Necroptosis during Acute Bacterial Pneumonia. PLoS Pathog. 2015;11(12):e1005337.

Dmitriev YV, Minasian SM, Demchenko EA, Galagudza MM. Study of cardioprotective effects of necroptosis inhibitors on isolated rat heart subjected to global ischemia-reperfusion. Bull Exp Biol Med. 2013;155(2):245-248.

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