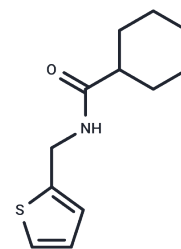


Necroptosis-IN-3

Chemical Properties

CAS No. : 547698-18-0
 Formula: C₁₂H₁₇NOS
 Molecular Weight: 223.33
 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	Necroptosis-IN-3 (Cyclohexanecarboxamide, N-(2-thienylmethyl)-) (Compound 69) is a Necroptosis inhibitor that inhibits TNF- α induced necroptosis. Necroptosis-IN-3 (Compound STX1638) also inhibits 11 β -HSD1.
Targets(IC50)	Dehydrogenase,Necroptosis
In vitro	TNF- α -IN-8 (Compound 69) (0.030-100 μ M; 24 h) inhibits TNF- α -induced necrosis in FADD-deficient human Jurkat T cells [1].

Solubility Information

Solubility	DMSO: 55 mg/mL (246.27 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 (8.96 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	4.4777 mL	22.3884 mL	44.7768 mL
5 mM	0.8955 mL	4.4777 mL	8.9554 mL
10 mM	0.4478 mL	2.2388 mL	4.4777 mL
50 mM	0.0896 mL	0.4478 mL	0.8955 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

Junying Yuan, et al. Small molecule inhibitors of necroptosis. Patent US20120122889A1.

Nigel Vicker, et al. Compound. Patent US20100120789A1.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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