

RIPA-56

Chemical Properties

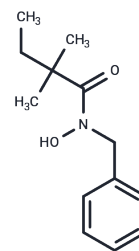
CAS No. : 1956370-21-0

Formula: C₁₃H₁₉NO₂

Molecular Weight: 221.3

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	RIPA-56 is an inhibitor of RIP1
Targets(IC50)	RIP kinase
In vivo	In the SIRS mice disease model, RIPA-56 efficiently reduced tumor necrosis factor alpha (TNF α)-induced mortality and multi-organ damage. Compared to known RIP1 inhibitors, RIPA-56 is potent in both human and murine cells, is much more stable in vivo, and is efficacious in animal model studies.

Solubility Information

Solubility	DMSO: 100 mg/mL (451.88 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: 4 mg/mL (18.08 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	4.5188 mL	22.5938 mL	45.1875 mL
5 mM	0.9038 mL	4.5188 mL	9.0375 mL
10 mM	0.4519 mL	2.2594 mL	4.5188 mL
50 mM	0.0904 mL	0.4519 mL	0.9038 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

Ren Y , Su Y , Sun L , et al. Discovery of a Highly Potent, Selective, and Metabolically Stable Inhibitor of Receptor-Interacting Protein 1 (RIP1) for the Treatment of Systemic Inflammatory Response Syndrome[J]. Journal of Medicinal Chemistry, 2017, 60(3):972-986.

Feng L, Dai S, Zhang C, et al. Ripa-56 protects retinal ganglion cells in glutamate-induced retinal excitotoxic model of glaucoma. Scientific Reports. 2024, 14(1): 3834.

Zheng M, Zhai Y, Yu Y, et al. TNF compromises intestinal bile-acid tolerance dictating colitis progression and limited infliximab response. Cell Metabolism. 2024

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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