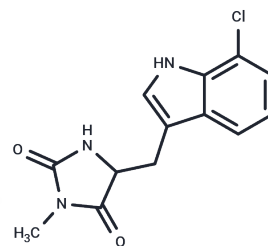


Necrostatin 2 racemate

Chemical Properties

CAS No. :	852391-15-2
Formula:	C ₁₃ H ₁₂ ClN ₃ O ₂
Molecular Weight:	277.71
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 2 racemate (Necrostatin-2 racemate) is an potent and specific inhibitor of RIPK1.
Targets(IC50)	RIP kinase

Solubility Information

Solubility	DMSO: 45 mg/mL (162.04 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: 2.5 mg/mL (9 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	3.6009 mL	18.0044 mL	36.0088 mL
5 mM	0.7202 mL	3.6009 mL	7.2018 mL
10 mM	0.3601 mL	1.8004 mL	3.6009 mL
50 mM	0.072 mL	0.3601 mL	0.7202 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

Takahashi N , Duprez L , Grootjans S , et al. Necrostatin-1 analogues: critical issues on the specificity, activity and in vivo use in experimental disease models[J]. Cell Death and Disease, 2012, 3(11):e437.

Yi Y, Gao K, Lin P, et al. Staphylococcus aureus-Induced Necroptosis Promotes Mitochondrial Damage in Goat Endometrial Epithelial Cells. Animals. 2022, 12(17): 2218.

Zheng H, Chen H, Cai Y, et al. Hydrogen sulfide-mediated persulfidation regulates homocysteine metabolism and enhances ferroptosis in non-small cell lung cancer. Molecular Cell. 2024

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