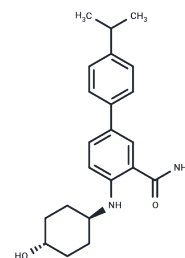


Grp94 Inhibitor-1

Chemical Properties

CAS No. :	2234897-35-7
Formula:	C ₂₂ H ₂₈ N ₂ O ₂
Molecular Weight:	352.47
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	Grp94 Inhibitor-1 is a potent and selective inhibitor of Grp94 with an IC ₅₀ of 2 nM.
Targets(IC ₅₀)	HSP,GPCR

Solubility Information

Solubility	DMSO: 83.33 mg/mL (236.42 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 (5.67 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	2.8371 mL	14.1856 mL	28.3712 mL
5 mM	0.5674 mL	2.8371 mL	5.6742 mL
10 mM	0.2837 mL	1.4186 mL	2.8371 mL
50 mM	0.0567 mL	0.2837 mL	0.5674 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

Jiang F , Guo A P , Xu J C , et al. Discovery of a Potent Grp94 Selective Inhibitor with Anti-inflammatory Efficacy in a Mouse Model of Ulcerative Colitis[J]. Journal of Medicinal Chemistry, 2018.

Hao M, Guo Y, Zhang Z, et al. 6-acrylic phenethyl ester-2-pyranone derivative induces apoptosis and G2/ M arrest by targeting GRP94 in colorectal cancer. Bioorganic Chemistry. 2022, 123: 105802

Lu Y, Li D, Ai H, et al. Glucose-regulated protein 94 facilitates the proliferation of the Bombyx mori nucleopolyhedrovirus via inhibiting apoptosis. International Journal of Biological Macromolecules. 2023: 127158.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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