

Nexinhib20

Chemical Properties

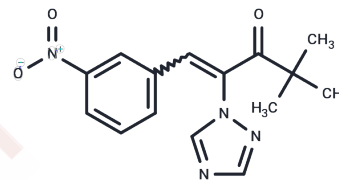
CAS No. : 331949-35-0

Formula: C₁₅H₁₆N₄O₃

Molecular Weight: 300.31

Storage: Keep away from moisture, Store at low temperature
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	Nexinhib20 is an inhibitor of exosome synthesis and transport with anti-inflammatory activity, inhibits RAB27A and neutral sphingomyelinase 2 (nsMase2) nsMase2, inhibits IL-8-induced $\beta(2)$ integrin-dependent adhesion of human neutrophils in the subfluidic phase, and inhibits neutrophil adhesion and $\beta(2)$ integrin activation through antagonism of the rac-1-guanosine 5'-triphosphate interaction. beta(2) integrin activation.
Targets(IC50)	Reactive Oxygen Species, Integrin, ROS, Ras

Solubility Information

Solubility	DMSO: 80 mg/mL (266.39 mM), Sonication is recommended. Ethanol: 5 mg/mL (16.65 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: 3.3 mg/mL (10.99 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	3.3299 mL	16.6495 mL	33.2989 mL
5 mM	0.666 mL	3.3299 mL	6.6598 mL
10 mM	0.333 mL	1.6649 mL	3.3299 mL
50 mM	0.0666 mL	0.333 mL	0.666 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

Johnson JL, et al. Identification of Neutrophil Exocytosis Inhibitors (Nexinhibs), Small Molecule Inhibitors of Neutrophil Exocytosis and Inflammation: DRUGGABILITY OF THE SMALL GTPase Rab27a. J Biol Chem. 2016 Dec 9; 291(50):25965-25982.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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