

Chitinase-IN-1

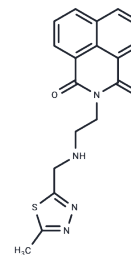
Chemical Properties

CAS No. : 1579991-61-9

Formula: C₁₈H₁₆N₄O₂S

Molecular Weight: 352.41

Storage: 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	Chitinase-IN-1 is an inhibitor of insect chitinases and N-acetylhexosaminidases that does not inhibit N-acetylhexosaminidases of mammalian and plant origin, and can be used as an insecticide.
Targets(IC50)	Others
In vitro	Chitinase-IN-1 inhibits chitinase and N-acetyl-hexosaminidase activity by 75% and 67%, respectively, at concentrations of 50μM and 20μM[1].

Solubility Information

Solubility	DMSO: 40 mg/mL (113.5 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 (5.68 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	2.8376 mL	14.188 mL	28.376 mL
5 mM	0.5675 mL	2.8376 mL	5.6752 mL
10 mM	0.2838 mL	1.4188 mL	2.8376 mL
50 mM	0.0568 mL	0.2838 mL	0.5675 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

thalimide derivative and application thereof as enzyme inhibitor and pesticide . Patent CN 103641825 A

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

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