

NK01-63

Chemical Properties

CAS No. : 2922281-15-8

Formula: C₂₂H₂₉F₃N₃NaO₈S

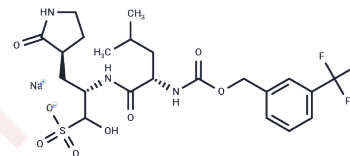
Molecular Weight: 575.53

Storage:

Store at low temperature, Keep away from direct sunlight

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	NK01-63 (Coronastat) is a potent inhibitor of the SARS-CoV-2 3CL protease.
Targets(IC50)	SARS-CoV

Solubility Information

Solubility	DMSO: 90 mg/mL (156.38 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 (5.73 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	1.7375 mL	8.6876 mL	17.3753 mL
5 mM	0.3475 mL	1.7375 mL	3.4751 mL
10 mM	0.1738 mL	0.8688 mL	1.7375 mL
50 mM	0.0348 mL	0.1738 mL	0.3475 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

Liu H, et al. Development of optimized drug-like small molecule inhibitors of the SARS-CoV-2 3CL protease for treatment of COVID-19. Nat Commun. 2022;13(1):1891.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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