

Gallinamide A TFA

Chemical Properties

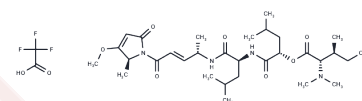
CAS No. : 1352920-57-0

Formula: C33H53F3N4O9

Molecular Weight: 706.79

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	Gallinamide A TFA is a peptide that exhibits linear deposition and serves as a potent inhibitor of cathepsin L (CatL) with an IC ₅₀ of 17.6 pM. It inhibits SARS-CoV-2 infection by targeting CatL (EC ₅₀ : 28 nM) and also inhibits Plasmodium falciparum with an IC ₅₀ of 50 nM [1] [2].
Targets(IC ₅₀)	Parasite,Cysteine Protease,SARS-CoV
In vitro	Gallinamide A TFA exhibits low cytotoxicity, with a CC ₅₀ of over 100 μM in VeroE6 cells. At a concentration of 0.5 μM for 96 hours, Gallinamide A TFA can inhibit CatL-mediated endosomal entry of SARS-CoV-2 into VeroE6 cells [1]. This compound also shows synergistic effects with the TMPRSS2 inhibitor Nafamostat mesylate, demonstrating effective antiviral activity in HEK-ACE2-TMPRSS2 cells but is ineffective in the VeroE6 cell line [1].

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.4148 mL	7.0742 mL	14.1485 mL
5 mM	0.283 mL	1.4148 mL	2.8297 mL
10 mM	0.1415 mL	0.7074 mL	1.4148 mL
50 mM	0.0283 mL	0.1415 mL	0.283 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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