

GC-78-HCl

Chemical Properties

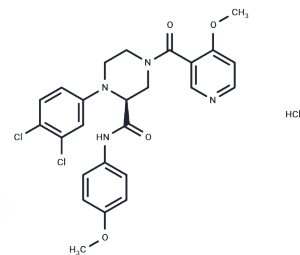
CAS No. : 3022242-53-8

Formula: C₂₅H₂₅Cl₃N₄O₄

Molecular Weight: 551.85

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	GC-78-HCl is an orally active, non-peptidic SARS-CoV-2 Mpro inhibitor with an enzyme IC ₅₀ of 0.19 μM. It exhibits strong anti-coronavirus activity and favorable pharmacokinetic properties.
Targets(IC ₅₀)	SARS-CoV
In vitro	GC-78-HCl (0.01-10 μM) exhibits low cytotoxicity in Vero E6 cells. It demonstrates effective antiviral activity against SARS-CoV-2 variants and other human coronaviruses in MRC-5 and Vero E6 cells, suggesting potential broad-spectrum anti-coronavirus efficacy. Additionally, GC-78-HCl (50 μM) does not inhibit human cathepsins B, F, K, L, and Caspase 3, indicating high target specificity for coronavirus proteases.
In vivo	GC-78-HCl (800 mg/kg, oral administration, single dose) exhibits no acute toxicity in Kunming mice.

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.8121 mL	9.0604 mL	18.1209 mL
5 mM	0.3624 mL	1.8121 mL	3.6242 mL
10 mM	0.1812 mL	0.906 mL	1.8121 mL
50 mM	0.0362 mL	0.1812 mL	0.3624 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

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

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