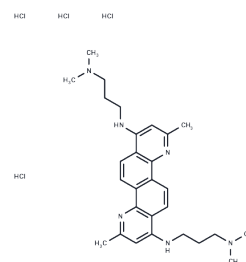


FGI-106 tetrahydrochloride

Chemical Properties

CAS No. :	1149348-10-6
Formula:	C ₂₈ H ₄₂ Cl ₄ N ₆
Molecular Weight:	604.48
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	FGI-106 tetrahydrochloride demonstrates potent inhibitory activity across a broad spectrum of viruses, including those causing hemorrhagic fevers such as Ebola, Rift Valley, and Dengue Fever, with half-maximal effective concentrations (EC ₅₀ s) of 100 nM, 800 nM, and 400-900 nM, respectively. Additionally, it effectively inhibits non-hemorrhagic fever viruses, notably HCV and HIV-1, with EC ₅₀ s of 200 nM and 150 nM, respectively, indicating its broad-spectrum antiviral potential.
Targets(IC ₅₀)	Anti-infection, HCV Protease, HIV Protease, Influenza Virus, Virus Protease
In vitro	In cell-based assays, treatment with FGI-106 inhibits viral replication by divergent virus families, including positive and negative-strand RNA viruses. Treatment with 2 μM FGI-106 mediated a 4 log reduction in infectious viral titers relative to matched controls, with an EC ₉₀ for inhibition of viral killing of host cells (Vero E6 cells) estimated to be 0.6 μM.
In vivo	FGI-106 treatment decreases mortality from Zaire EBOV in a dose-dependent manner.

Solubility Information

Solubility	DMSO: 7.5 mg/mL (12.41 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.6543 mL	8.2716 mL	16.5431 mL
5 mM	0.3309 mL	1.6543 mL	3.3086 mL
10 mM	0.1654 mL	0.8272 mL	1.6543 mL
50 mM	0.0331 mL	0.1654 mL	0.3309 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

Aman MJ, et al. Development of a broad-spectrum antiviral with activity against Ebola virus. *Antiviral Res.* 2009 Sep;83(3):245-51.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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