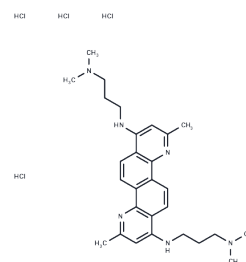


## FGI-106 tetrahydrochloride

### Chemical Properties

CAS No. :	1149348-10-6
Formula:	C <sub>28</sub> H <sub>42</sub> Cl <sub>4</sub> N <sub>6</sub>
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 <sub>50</sub> 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 <sub>50</sub> s of 200 nM and 150 nM, respectively, indicating its broad-spectrum antiviral potential.
Targets(IC <sub>50</sub> )	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 <sub>90</sub> 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

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
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

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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.

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