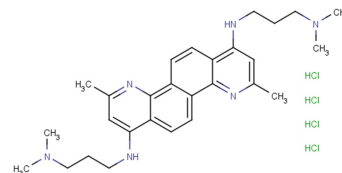


## FGI-106 tetrahydrochloride

## 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:	604.49
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).



## Biological Description

Description	FGI-106 tetrahydrochloride is active against Ebola, Rift Valley and Dengue Fever viruses with EC <sub>50</sub> s of 100 nM, 800 nM and 400-900 nM, respectively. FGI-106 tetrahydrochloride also inhibits non-hemorrhagic fever viruses HCV and HIV-1 with EC <sub>50</sub> s of 200 nM and 150 nM, respectively. FGI-106 tetrahydrochloride is a potent and broad-spectrum inhibitor with inhibitory activity against multiple viruses.
Targets(IC <sub>50</sub> )	Ebola virus: (EC <sub>50</sub> ) 100 nM Rift Valley virus: 800 nM Dengue Fever virus: 400-900 nM HCV: 200 nM HIV-1: 150 nM
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	< 1 mg/ml refers to the product slightly soluble or insoluble
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## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.654 mL	8.271 mL	16.543 mL
5 mM	0.331 mL	1.654 mL	3.309 mL
10 mM	0.165 mL	0.827 mL	1.654 mL
50 mM	0.033 mL	0.165 mL	0.331 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

## Reference

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

Inhibitors · Natural Compounds · Compound Libraries

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