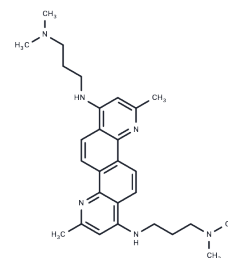


FGI-106

## Chemical Properties

CAS No. : 501081-38-5  
 Formula: C<sub>28</sub>H<sub>38</sub>N<sub>6</sub>  
 Molecular Weight: 458.64  
 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 is a potent, broad-spectrum inhibitor demonstrating activity against various viruses, including Ebola, Rift Valley Fever, and Dengue Fever, exhibiting EC <sub>50</sub> values of 100 nM, 800 nM, and 400-900 nM, respectively. Furthermore, it effectively inhibits non-hemorrhagic fever viruses such as HCV and HIV-1, with EC <sub>50</sub> s of 200 nM and 150 nM, respectively.
Targets(IC <sub>50</sub> )	Anti-infection,Others,HCV Protease,HIV Protease
In vitro	In cell-based assays, FGI-106 effectively inhibits replication across diverse virus families, encompassing both positive and negative-strand RNA viruses. A concentration of 2 μM FGI-106 resulted in a significant four-log decrease in infectious viral titers compared to matched controls. Moreover, the effective concentration required to achieve 90% inhibition of viral-induced cytotoxicity in host cells (Vero E6 cells) is estimated to be 0.6 μM.
In vivo	FGI-106 (0.1-5 mg/kg; intraperitoneal injection; treatments on days 2 and 5; C57BL/6 or BALB/c mice) reduces mortality from Zaire EBOV in a dose-dependent manner.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.1804 mL	10.9018 mL	21.8036 mL
5 mM	0.4361 mL	2.1804 mL	4.3607 mL
10 mM	0.218 mL	1.0902 mL	2.1804 mL
50 mM	0.0436 mL	0.218 mL	0.4361 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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