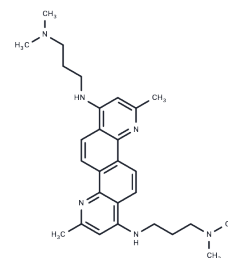


FGI-106

Chemical Properties

CAS No. : 501081-38-5
 Formula: C₂₈H₃₈N₆
 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 ₅₀ 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 ₅₀ s of 200 nM and 150 nM, respectively. |
| Targets(IC ₅₀) | 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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Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481