

LHF-535

Chemical Properties

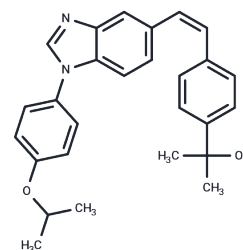
CAS No. : 1450929-77-7

Formula: C₂₇H₂₈N₂O₂

Molecular Weight: 412.52

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	LHF-535 is an antiviral compound. It has EC ₅₀ s of <1 μM, <1 μM, <1 μM, and 1-10 μM for Lassa, Machupo, Junin, and VSVg virus, respectively.
Targets(IC ₅₀)	Anti-infection, Antiviral, Virus Protease
In vitro	LHF-535 is a small-molecule viral entry inhibitor that targets the arenavirus envelope glycoprotein (GP). LHF-535 inhibits Lassa GP-pseudotyped lentivirus (IC ₅₀ : 0.1-0.3 nM). LHF-535 shows effective antiviral activity against a broad array of hemorrhagic fever arenaviruses [2].
In vivo	An increase in survival is also observed when the first dose of LHF-535 (10 mg/kg) is delayed by 1, 2, or 3 days after infection. LHF-535 (3, 10 or 30 mg/kg; orally; daily; 14 days) protects mice from a lethal challenge with Tacaribe virus and dramatically reduces viral titers in plasma, spleen, and liver [2].

Solubility Information

Solubility	DMSO: 96.67 mg/mL (234.34 mM), Sonication is recommended. H ₂ O: < 0.1 mg/mL (insoluble), (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (8 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.4241 mL	12.1206 mL	24.2412 mL
5 mM	0.4848 mL	2.4241 mL	4.8482 mL
10 mM	0.2424 mL	1.2121 mL	2.4241 mL
50 mM	0.0485 mL	0.2424 mL	0.4848 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

Dongcheng Dai, et al. Antiviral drugs for treatment of arenavirus infection. WO2013123215A2.

Madu IG, et al. A potent Lassa virus antiviral targets an arenavirus virulence determinant. PLoS Pathog. 2018 Dec 21;14(12):e1007439.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use

Tel:781-999-4286 E_mail:info@targetmol.com Address:34 Washington Street,Wellesley Hills,MA 02481