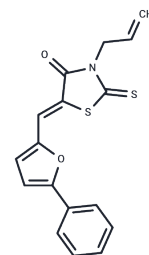


LJ-001

Chemical Properties

CAS No. : 851305-26-5
 Formula: C₁₇H₁₃NO₂S₂
 Molecular Weight: 327.42
 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	LJ-001 shows broad-spectrum activity against virtually all enveloped RNA and DNA viruses. LJ001 inhibits the infection of transmissible gastroenteritis virus (TGEV) and porcine delta coronavirus (PDCoV).
Targets(IC50)	Antiviral,HCV Protease,HIV Protease
In vitro	In ST cells, LJ001 (12.5 μM) decreases the N-protein expression of TGEV and PDCoV and the gene mRNA expression in a time-dependent manner. LJ001 shows activities against HIV, HCV, influenza, Ebola, poxviruses and arenaviruses[3].
In vivo	In female BALB/c mice, oral gavage and intraperitoneal administration of LJ001 (20-50 mg/kg) shows no toxicity except a slight elevation in serum cholesterol levels[4].

Solubility Information

Solubility	DMSO: 3.28 mg/mL (10.02 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.0542 mL	15.2709 mL	30.5418 mL
5 mM	0.6108 mL	3.0542 mL	6.1084 mL
10 mM	0.3054 mL	1.5271 mL	3.0542 mL
50 mM	0.0611 mL	0.3054 mL	0.6108 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

De Clercq E. Highlights in antiviral drug research: antivirals at the horizon. *Med Res Rev.* 2013 Nov;33(6):1215-48. doi: 10.1002/med.21256. Epub 2012 May 2. Review. PubMed PMID: 22553111.

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Zhang Y, et al. Rhodanine derivative LJ001 inhibits TGEV and PDCoV replication in vitro. *Virus Res.* 2020 Nov;289:198167.

Wolf MC, et al. A broad-spectrum antiviral targeting entry of enveloped viruses. *Proc Natl Acad Sci U S A.* 2010 Feb 16;107(7):3157-62.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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