

BIT225

Chemical Properties

CAS No. : 917909-71-8

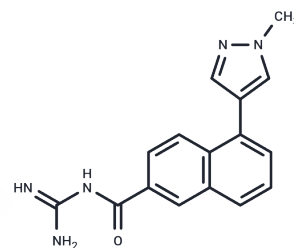
Formula: C₁₆H₁₅N₅O

Molecular Weight: 293.32

Store at low temperature

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	BIT225 is a human immunodeficiency virus type 1 Vpu inhibitor with antiviral activity that inhibits HIV-1 replication in bone marrow dendritic cells and inhibits ion channels formed by HIV-1 Vpu.
Targets(IC50)	Antiviral,HIV Protease

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.4092 mL	17.0462 mL	34.0925 mL
5 mM	0.6818 mL	3.4092 mL	6.8185 mL
10 mM	0.3409 mL	1.7046 mL	3.4092 mL
50 mM	0.0682 mL	0.3409 mL	0.6818 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

Khoury G, et al. The antiviral compound BIT225 inhibits HIV-1 replication in myeloid dendritic cells. *AIDS Res Ther.* 2016 Feb 8;13:7.

Luscombe CA, et al. Human Immunodeficiency Virus Type 1 Vpu Inhibitor, BIT225, in Combination with 3-Drug Antiretroviral Therapy: Inflammation and Immune Cell Modulation. *J Infect Dis.* 2021 Jun 4;223(11):1914-1922.

Ewart G, et al. Post-infection treatment with the E protein inhibitor BIT225 reduces disease severity and increases survival of K18-hACE2 transgenic mice infected with a lethal dose of SARS-CoV-2. *PLoS Pathog.* 2023 Aug 7;19(8): e1011328.

Khoury G, et al. Antiviral efficacy of the novel compound BIT225 against HIV-1 release from human macrophages. *Antimicrob Agents Chemother.* 2010 Feb;54(2):835-45.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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