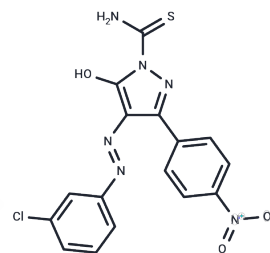


Hck-IN-1

Chemical Properties

CAS No. :	1473404-51-1
Formula:	C ₁₆ H ₁₁ ClN ₆ O ₃ S
Molecular Weight:	402.81
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	Hck-IN-1 is a selective Nef-dependent Hck inhibitor (IC ₅₀ s: 2.8 μM and >20 μM for Nef: Hck complex and Hck) with antiretroviral activity. Hck-IN-1 is a direct and wide HIV-1 Nef antagonist with an IC ₅₀ of 100–300 nM for wild-type HIV-1 replication.
Targets(IC ₅₀)	HIV Protease,Hck,Src
In vitro	Hck-IN-1 inhibits the replication of all eleven HIV-1 Nef chimeras (IC ₅₀ s: ~ 300 nM in CEM-T4 cells) demonstrating that the compound is broadly active against HIV replication supported by a wide range of HIV-1 Nef proteins. Hck-IN-1 shows weak activity against other Src-family members in vitro, with IC ₅₀ values >20 μM for c-Src, Lck, and Lyn. B9 (1 μM; 8 days) completely inhibits Nef-dependent SFK activation at a concentration of 1.0 μM. Hck-IN-1 (0.1, 0.3, 1, 3 μM) also inhibits Nef-mediated enhancement of HIV-1 infectivity in a concentration-dependent manner in the reporter cell line, TZM-bl.

Solubility Information

Solubility	DMSO: 12.5 mg/mL (31.03 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	2.4826 mL	12.4128 mL	24.8256 mL
5 mM	0.4965 mL	2.4826 mL	4.9651 mL
10 mM	0.2483 mL	1.2413 mL	2.4826 mL
50 mM	0.0497 mL	0.2483 mL	0.4965 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

Emert-Sedlak LA, et al. Effector kinase coupling enables high-throughput screens for direct HIV-1 Nef antagonists with antiretroviral activity. Chem Biol. 2013 Jan 24;20(1):82-91.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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