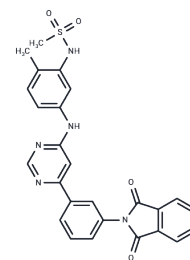


CDK9-IN-1

Chemical Properties

CAS No. :	1415559-43-1
Formula:	C ₂₆ H ₂₁ N ₅ O ₄ S
Molecular Weight:	499.54
Storage:	Store at low temperature Powder: -20°C for 3 years In solvent: -80°C for 1 year <i>Actual storage temperature shall be subject to the COA.</i>



Biological Description

Description	CDK9-IN-1 is a selective and potent CDK9 inhibitor with antiviral activity used in the study of PRRSV infections.
Targets(IC50)	HIV Protease,CDK
In vitro	CDK9-IN-1 is a selective CDK9 inhibitor with an IC ₅₀ = 39 nM for CDK9/CycT1. p24 analysis of CDK9-IN-1 revealed that it can be used for the treatment of HIV infection. [1]

Solubility Information

Solubility	DMSO: 25 mg/mL (50.05 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+90% Corn Oil: 2 mg/mL (4 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	2.0018 mL	10.0092 mL	20.0184 mL
5 mM	0.4004 mL	2.0018 mL	4.0037 mL
10 mM	0.2002 mL	1.0009 mL	2.0018 mL
50 mM	0.040 mL	0.2002 mL	0.4004 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

Németh G, et al. Novel, selective CDK9 inhibitors for the treatment of HIV infection. *Curr Med Chem.* 2011;18(3): 342-58.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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