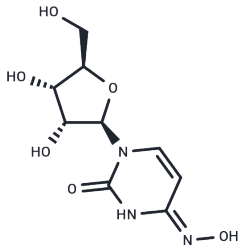
Data Sheet (Cat.No.T8498)

TargetMol

EIDD-1931

Chemical Properties



CAS No. : 3258-02-4

Formula: C9H13N3O6

Molecular Weight: 259.22

Storage: Powder: -20°C for 3 years
Actual storage temperature shall be subject to the COA.

Biological Description

Description	EIDD-1931 (Beta-d-N4-hydroxycytidine) is a ribonucleoside analog with antiviral activity that inhibits the replication of severe acute respiratory syndrome coronavirus [SARS-CoV] in Vero 76 cells, Middle East respiratory syndrome coronavirus [MERS-CoV] in Calu-3 2B4 cells, and SARS-CoV-2 in Vero cells (IC50s = 0.1, 0.15, and 0.3 μM, respectively).
Targets(IC50)	HCV Protease,SARS-CoV,Topoisomerase,Virus Protease

Solubility Information

Solubility	DMSO: 255 mg/mL (983.72 mM),Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 2 mg/mL (7.72 mM),Sonication is recommended. *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.*

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.8577 mL	19.2886 mL	38.5773 mL
5 mM	0.7715 mL	3.8577 mL	7.7155 mL
10 mM	0.3858 mL	1.9289 mL	3.8577 mL
50 mM	0.0772 mL	0.3858 mL	0.7715 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

Urakova N, et al. β-d-N4-Hydroxycytidine Is a Potent Anti-alphavirus Compound That Induces a High Level of Mutations in the Viral Genome. J Virol. 2018 Jan 17;92(3). pii: e01965-17.

Li Y, Liu M, Yan Y, et al. Molnupiravir and Its Active Form, EIDD-1931, Show Potent Antiviral Activity against Enterovirus Infections In Vitro and In Vivo. Viruses. 2022, 14(6): 1142

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