

## Dideoxyadenosine

## Chemical Properties

CAS No. :	4097-22-7
Formula:	C10H13N5O2
Molecular Weight:	235.243
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	2',3'-Dideoxyadenosine is an inhibitor of HIV replication, exhibiting antiretroviral activity and antiviral efficacy [1].
Targets(IC50)	Others,HIV Protease
In vitro	2',3'-Dideoxyadenosine effectively inhibits the replication of HIV-1, simian immunodeficiency virus (SIV), and murine sarcoma virus (MSV) across various cell lines. In MT-4 cells, it shows EC50 values of 5.27 $\mu$ M for HIV-1 and 5.3 $\mu$ M for SIV. It also inhibits HIV-1 and HIV-2 in human T-lymphocyte CEM cells with EC50 values of 4 $\mu$ M and 8 $\mu$ M, respectively, and achieves similar inhibitory effects in Molt 4/C8 and C8166 cells, with EC50 values ranging from 4 $\mu$ M to 22 $\mu$ M for both viruses. Furthermore, it demonstrates inhibition against MSV in C3H/3T3 cells with an EC50 of 24 $\mu$ M.

## Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	4.251 mL	21.2549 mL	42.5098 mL
5 mM	0.8502 mL	4.251 mL	8.502 mL
10 mM	0.4251 mL	2.1255 mL	4.251 mL
50 mM	0.085 mL	0.4251 mL	0.8502 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.

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