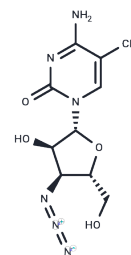


3'-Azido-3'-deoxy-5-methylcytidine

Chemical Properties

CAS No. :	1282040-14-5
Formula:	C10H14N6O4
Molecular Weight:	282.26
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	3'-Azido-3'-deoxy-5-methylcytidine inhibits HIV-1 reverse transcriptase (EC50 = 0.06 μ M) and is an effective inhibitor of xenotropic murine leukemia-related retrovirus [XMRV, CC50 = 43.5 μ M].
Targets(IC50)	Antiviral,HIV Protease,Reverse Transcriptase

Solubility Information

Solubility	DMSO: 80 mg/mL (283.43 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: 3.3 mg/mL (11.69 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	3.5428 mL	17.7142 mL	35.4283 mL
5 mM	0.7086 mL	3.5428 mL	7.0857 mL
10 mM	0.3543 mL	1.7714 mL	3.5428 mL
50 mM	0.0709 mL	0.3543 mL	0.7086 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

Singh IR, et al. Raltegravir is a potent inhibitor of XMRV, a virus implicated in prostate cancer and chronic fatigue syndrome. PLoS One. 2010 Apr 1;5(4):e9948.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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