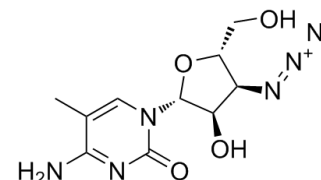


3'-Azido-3'-deoxy-5-methylcytidine

Cat. No.:	HY-111640		
CAS No.:	1282040-14-5		
Molecular Formula:	C ₁₀ H ₁₄ N ₆ O ₄		
Molecular Weight:	282.26		
Target:	HIV; Reverse Transcriptase		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	6 months
		-20°C	1 month



Solvent & Solubility

In Vitro	DMSO : 83.33 mg/mL (295.22 mM; Need ultrasonic)				
	Preparing Stock Solutions	Solvent Concentration	1 mg	5 mg	10 mg
		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
Please refer to the solubility information to select the appropriate solvent.					
In Vivo	1. Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline Solubility: ≥ 2.08 mg/mL (7.37 mM); Clear solution				
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.08 mg/mL (7.37 mM); Clear solution				
	3. Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline) Solubility: ≥ 2.08 mg/mL (7.37 mM); Clear solution				

BIOLOGICAL ACTIVITY

Description	3'-Azido-3'-deoxy-5-methylcytidine (CS-92) is a potent xenotropic murine leukemia-related retrovirus (XMRV) inhibitor with a CC ₅₀ of 43.5 μM in MCF-7 cells. 3'-Azido-3'-deoxy-5-methylcytidine also inhibits HIV-1 reverse transcriptase with an EC ₅₀ of 0.06 μM in peripheral blood mononuclear (PBM) cells ^[1] .	
IC ₅₀ & Target	HIV-1 0.06 μM (EC ₅₀ , in PBM)	XMRV 43.5 μM (CC ₅₀ , in MCF-7 cells)

cells)

REFERENCES

[1]. 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.

Caution: Product has not been fully validated for medical applications. For research use only.

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