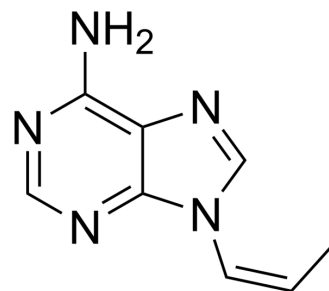


(Z)-9-Propenyladenine

Cat. No.:	HY-100079A		
CAS No.:	1464851-21-5		
Molecular Formula:	C ₈ H ₉ N ₅		
Molecular Weight:	175.19		
Target:	HIV		
Pathway:	Anti-infection		
Storage:	Powder	-20°C	3 years
		4°C	2 years
	In solvent	-80°C	2 years
		-20°C	1 year



SOLVENT & SOLUBILITY

In Vitro

DMSO : ≥ 100 mg/mL (570.81 mM)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent Concentration	Mass		
		1 mg	5 mg	10 mg
	1 mM	5.7081 mL	28.5404 mL	57.0809 mL
	5 mM	1.1416 mL	5.7081 mL	11.4162 mL
	10 mM	0.5708 mL	2.8540 mL	5.7081 mL

Please refer to the solubility information to select the appropriate solvent.

In Vivo

- Add each solvent one by one: 10% DMSO >> 40% PEG300 >> 5% Tween-80 >> 45% saline
 Solubility: ≥ 2.5 mg/mL (14.27 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% (20% SBE-β-CD in saline)
 Solubility: ≥ 2.5 mg/mL (14.27 mM); Clear solution
- Add each solvent one by one: 10% DMSO >> 90% corn oil
 Solubility: ≥ 2.5 mg/mL (14.27 mM); Clear solution

BIOLOGICAL ACTIVITY

Description

(Z)-9-Propenyladenine is a mutagenic impurity in tenofovir disoproxil fumarate. Tenofovir is an antiretroviral agent known as nucleotide analogue reverse transcriptase (NtART) inhibitor, which blocks reverse transcriptase, a crucial virus enzyme in HIV-1 and HBV.

IC₅₀ & Target

HIV-1

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

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