## NUC-7738

Cat. No.:	HY-136506			
CAS No.:	2348493-39-8			
Molecular Formula:	$C_{26}H_{29}N_6O_7P$			
Molecular Weight:	568.52			
Target:	Others			
Pathway:	Others			
Storage:	Powder	-20°C	3 years	
	In solvent	-80°C	6 months	
		-20°C	1 month	

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### SOLVENT & SOLUBILITY

In Vitro	DMSO : 100 mg/mL (175.90 mM; Need ultrasonic)						
	Preparing Stock Solutions	Solvent Mass Concentration	1 mg	5 mg	10 mg		
		1 mM	1.7590 mL	8.7948 mL	17.5895 mL		
		5 mM	0.3518 mL	1.7590 mL	3.5179 mL		
		10 mM	0.1759 mL	0.8795 mL	1.7590 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: ≥ 2.5 mg/mL (4.40 mM); Clear solution						
	2. Add each solvent one by one: 10% DMSO >> 90% corn oil Solubility: ≥ 2.5 mg/mL (4.40 mM); Clear solution						

BIOLOGICALACTIV					
Description	NUC-7738, an aryloxy phosphoramidate of 3'-Deoxyadenosine, is a 5'-aryloxy phosphoramidate prodrug of 3'- Deoxyadenosine (3'-dA). NUC-7738 has potent cytotoxic activity against a panel of hematological cancer cell lines. NUC-7738 can be used in research of cancer <sup>[1]</sup> .				
In Vitro	NUC-7738 (compound 7a; 0-198 μM; 72 h; CCRF-CEM, HL-60, KG-1, MOLT-4, K562, MV4-11, THP-1, HEL92, NCI-H929, RPMI- 8226, Jurkat, Z138, RL, HS445, HepG2, MCF-7, Bx-PC-3, HT29, MIA PaCa-2 and SW620 cells) has anticancer activity and cytotoxic activity against a lineage of leukocytes with LC <sub>50</sub> values of ⊠30 μM <sup>[1]</sup> . NUC-7738 (1 μM) has good stability in human hepatocytes with t <sub>1/2</sub> value of 48.1 min <sup>[1]</sup> . NUC-7738 has increased stability in human plasma compared to the parent nucleoside, with no change in plasma concentration up to 4 h <sup>[1]</sup> . MCE has not independently confirmed the accuracy of these methods. They are for reference only.				

# Product Data Sheet

 $H_2N$ 

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### REFERENCES

[1]. Serpi M, et, al. Synthesis and Characterization of NUC-7738, an Aryloxy Phosphoramidate of 3'-Deoxyadenosine, as a Potential Anticancer Agent. J Med Chem. 2022 Dec 8;65(23):15789-15804.

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

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