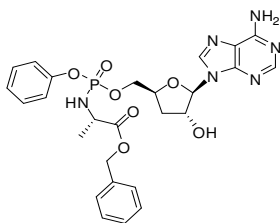




## Certificate of Analysis

**Axon Catalogue ID:** 3826 **Batch Number:** 1  
**Product Name:** NUC-7738  
**Alternative Name(s):** 3'-Deoxyadenosine 5'-O-phenyl-(benzoxy-L-alaninyl)-phosphate  
**IUPAC Name:** (2S)-Benzyl 2-((((2S,4R,5R)-5-(6-amino-9H-purin-9-yl)-4-hydroxytetrahydrofuran-2-yl)methoxy)(phenoxy)phosphorylamino)propanoate

**Structure:**



**Amount:**

**CAS number(s):** 2348493-39-8  
**Molecular Formula:** C<sub>26</sub>H<sub>29</sub>N<sub>6</sub>O<sub>7</sub>P **Molecular Weight:** 568.52  
**Batch Molecular Formula:** C<sub>26</sub>H<sub>29</sub>N<sub>6</sub>O<sub>7</sub>P.0.5H<sub>2</sub>O **Batch Molecular Weight:** 577.53  
**Appearance:** White solid **Observed mp:** 67 °C  
**TLC (R<sub>f</sub>):** 0.46 DCM/MeOH (9:1)  
**Chemical Purity:** 99.4%  
**Optical Purity (ee):** Mixture of diastereomers  
**Optical Rotation (Det.):** [α]<sub>D</sub> = -45.3° with c = 1 in MeOH  
**<sup>1</sup>H-NMR:** Analytical data confirm chemical structure  
**Mass Spec:** Analytical data confirm chemical structure  
**Microanalysis:** Calculated: C 54.07, H 5.24, N 14.55; Found: C 53.99, H 5.09, N 14.50  
**Storage Conditions:** Desiccate at -20 °C

Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
	Water	0.0	0.0	Insoluble
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)			Not Tested
	DMSO	57.8	>100 mM	
	EtOH	57.8	>100 mM	

**Remarks:** Suspected to be unstable in solution. It is recommended to prepare fresh solutions for your experiments.

**QC Date:** 18-7-2023

The purity of Axon Ligands is confirmed by HPLC, MS, NMR and/or microanalysis. Analytical data are available upon request. Request can be submitted by e-mail to [info@axonmedchem.com](mailto:info@axonmedchem.com) indicating Catalogue ID and Batch number.

**Caution: Not fully tested. For research purposes only**