

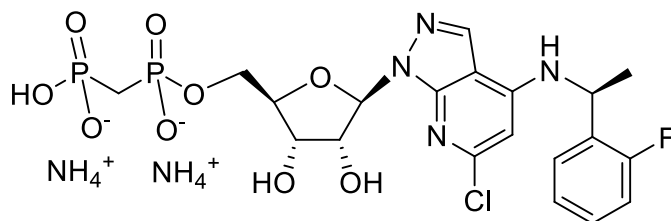


Northeast Business Center

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Certificate of Analysis



Product Name:	AB-680 (Diammonium)
Synonym:	NA
CAS No:	2105904-82-1
Prod. No:	CT-AB680
Lot No:	01
Batch Empirical Formula Batch Empirical Wt.	$C_{20}H_{24}ClFN_4O_9P_2 \cdot 2NH_3 \cdot H_2O$ 632.9
Solubility	Soluble in DMSO (63.3mg/ml, 100 mM) in Water (31.7mg/ml, 50 mM)
Storage	Store at 0 °C (short term), -20 °C (long term), desiccated

Appearance	White powder
Quality Control	MS: [✓] 1H NMR: [✓] Achiral HPLC: [✓] Chiral HPLC: [✓] Quantitative Elemental Analysis: [✓] $C_{20}H_{24}ClFN_4O_9P_2 \cdot 2NH_3 \cdot H_2O$ Calculated: C: 37.95%; H: 5.10%; N: 13.28% Found: C: 37.62%; H: 5.03%; N: 12.87%
Chemical Purity	>99% (Achiral HPLC at 214nm) >99% (Achiral HPLC at 254nm)
Optical Purity (e.e)	100% (Chiral HPLC)