



Certificate of Analysis

Axon Catalogue ID:	3664	Batch Number:	1
Product Name:	Brivudine		
Alternative Name(s):	BVdU		
IUPAC Name:	5-((E)-2-Bromovinyl)-1-((2R,4S,5R)-4-hydroxy-5-(hydroxymethyl)tetrahydrofuran-2-yl)pyrimidine-2,4(1H,3H)-dione		
Structure:			Amount:
CAS number(s):	69304-47-8		
Molecular Formula:	C ₁₁ H ₁₃ BrN ₂ O ₅	Molecular Weight:	333.14
Batch Molecular Formula:	C ₁₁ H ₁₃ BrN ₂ O ₅	Batch Molecular Weight:	333.14
Appearance:	White solid	Observed mp:	>167 °C (decomp)
TLC (R_f):	0.34	DCM/MeOH (9:1)	
Chemical Purity:	99.2%		
Optical Purity (ee):	Optically pure		
¹H-NMR:	Analytical data confirm chemical structure		
Mass Spec:	Analytical data confirm chemical structure		
Microanalysis:	Calculated: C 39.66, H 3.93, N 8.41; Found: C 39.31, H 3.86, N 8.12		
Storage Conditions:	Store at -20 °C		
Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM)
	Water	3.0	9.0
	0.1N NaOH (aq)		
	0.1N HCl (aq)		
	DMSO	33.3	>100 mM
	EtOH	14.0	42.0
Remarks:	* Warming (40°C) and/or sonication enhanced solubility.		
QC Date:	28-7-2022		

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 indicating Catalogue ID and Batch number.

Caution: Not fully tested. For research purposes only