



Certificate of Analysis

Axon Catalogue ID:	3419	Batch Number:	1
Product Name:	Broxuridine		
Alternative Name(s):	BUdR; BrdU; 5-Bromo-2'-deoxyuridine		
IUPAC Name:	5-Bromo-1-((2R,4S,5R)-4-hydroxy-5-(hydroxymethyl)tetrahydrofuran-2-yl)pyrimidine-2,4(1H,3H)-dione		
Structure:			Amount:
CAS number(s):	59-14-3		
Molecular Formula:	C9H11BrN2O5	Molecular Weight:	307.10
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Appearance:	White solid	Observed mp:	170.5 °C (decomp)
TLC (R_f):	0.36	DCM/MeOH (9:1)	
Chemical Purity:	99.7%		
Optical Purity (ee):	Optically pure		
¹H-NMR:	Analytical data confirm chemical structure		
Mass Spec:	Analytical data confirm chemical structure		
Microanalysis:	Calculated: C 35.20, H 3.61, N 9.12; Found: C 35.06, H 3.56, N 8.92		
Storage Conditions:	Store at +4 °C		
Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM)
	Water	7.3	23.9
	0.1N NaOH (aq)		Not Tested
	0.1N HCl (aq)		Not Tested
	DMSO	30.7	>100 mM
	EtOH		Not Tested
Remarks:			
QC Date:	8-7-2021		

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