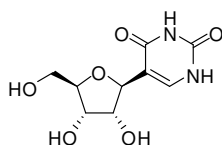




## Certificate of Analysis

**Axon Catalogue ID:** 3586 **Batch Number:** 1  
**Product Name:** Pseudouridine  
**Alternative Name(s):** N.A.  
**IUPAC Name:** 5-((2S,3R,4S,5R)-3,4-Dihydroxy-5-(hydroxymethyl)tetrahydrofuran-2-yl)pyrimidine-2,4(1H,3H)-dione

**Structure:**



**Amount:**

**CAS number(s):** 1445-07-4  
**Molecular Formula:** C<sub>9</sub>H<sub>12</sub>N<sub>2</sub>O<sub>6</sub> **Molecular Weight:** 244.20  
**Batch Molecular Formula:** C<sub>9</sub>H<sub>12</sub>N<sub>2</sub>O<sub>6</sub> **Batch Molecular Weight:** 244.20  
**Appearance:** White solid **Observed mp:** 224.5 - 227 °C  
**TLC (R<sub>f</sub>):** 0.35 BuOH/H<sub>2</sub>O/AcOH (7:2:1)  
**Chemical Purity:** 99.5%  
**Optical Purity (ee):** Optically pure  
**Optical Rotation (Det.):** [α]<sub>D</sub> = +7.1° with c = 0.25 in H<sub>2</sub>O  
**<sup>1</sup>H-NMR:** Analytical data confirm chemical structure  
**Mass Spec:** Analytical data confirm chemical structure  
**Microanalysis:** Calculated: C 44.27, H 4.95, N 11.47; Found: C 44.15, H 4.75, N 11.34  
**Storage Conditions:** Store at +4 °C

Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
	Water	24.0	98.3	
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)			Not Tested
	DMSO	24.4	>100 mM	
	EtOH	0.0	0.0	Insoluble

**Remarks:**

**QC Date:** 29-04-2022

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](mailto:info@axonmedchem.com) indicating Catalogue ID and Batch number.

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