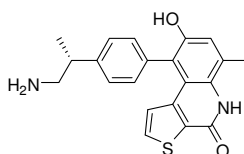




Certificate of Analysis

Axon Catalogue ID: 4171 **Batch Number:** 1
Product Name: OTS514
Alternative Name(s): N.A.
IUPAC Name: (R)-9-(4-(1-Aminopropan-2-yl)phenyl)-8-hydroxy-6-methylthieno[2,3-c]quinolin-4(5H)-one

Structure:



Amount:

CAS number(s): 1338540-63-8
Molecular Formula: C₂₁H₂₀N₂O₂S **Molecular Weight:** 364.46
Batch Molecular Formula: C₂₁H₂₀N₂O₂S.0.25H₂O **Batch Molecular Weight:** 368.96
Appearance: Light-brown solid **Observed mp:** 278.5 - 280.0 °C
TLC (R_f): 0.5 DCM/MeOH/NH₃ (9:1:0.1)
Chemical Purity: 99.4%
Optical Purity (ee): Optically pure
Optical Rotation (Det.): [α]_D = +175.6° with c = 0.5 in DMSO
¹H-NMR: Analytical data confirm chemical structure
Mass Spec: Analytical data confirm chemical structure
Microanalysis: Calculated: C 68.36, H 5.60, N 7.59; Found: C 68.40, H 5.64, N 7.63
Storage Conditions: Store at +4 °C

Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
	Water	0.0	0.0	Insoluble
	0.1N NaOH (aq)	0.0	0.0	Insoluble
	0.1N HCl (aq)	26.7	72.3	
	DMSO	6.0	16.3	* Warming (40°C)
	EtOH	0.0	0.0	Insoluble

Remarks: * Warming (40°C) enhanced solubility.

QC Date: 15-2-2024

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