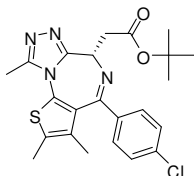


Certificate of Analysis

Axon Catalogue ID: 1989 **Batch Number:** 2
Product Name: (+)-JQ1
Alternative Name(s): JQ1
IUPAC Name: (S)-(+)-tert-Butyl 2-(4-(4-chlorophenyl)-2,3,9-trimethyl-6H-thieno[3,2-f][1,2,4]triazolo[4,3-a][1,4]diazepin-6-yl)acetate

Structure:



Amount:

CAS number(s): 1268524-70-4
Molecular Formula: C₂₃H₂₅ClN₄O₂S **Molecular Weight:** 456.99
Batch Molecular Formula: C₂₃H₂₅ClN₄O₂S.0.25H₂O **Batch Molecular Weight:** 461.49
Appearance: Light-yellow solid **Observed mp:** 102 - 106°C
TLC (R_f): 0.5 DCM/MeOH (20:1)
Chemical Purity: 98.6%
Optical Purity (ee): 99.6%
Optical Rotation (Det.): [α]_D = +51.0° with c = 0.5 in CHCl₃
¹H-NMR: Analytical data confirm chemical structure
Mass Spec: Analytical data confirm chemical structure
Microanalysis: Calculated: C 59.86, H 5.57, N 12.14; Found: C 59.95, H 5.43, N 12.07
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)			Not Tested
	0.1N HCl (aq)	0.0	0.0	Insoluble
	DMSO	46.1	>100 mM	
	EtOH	46.1	>100 mM	

Remarks:

QC Date: 4-4-2023

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