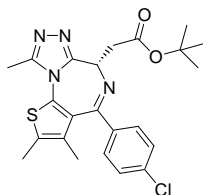




Certificate of Analysis

Axon Catalogue ID: 1989 **Batch Number:** 1
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: 1268524-70-4 **MW:** 456.99
Batch Molecular Formula: C₂₃H₂₅ClN₄O₂S.0.25H₂O **Batch MW:** 461.49
Appearance: Off-white solid **Observed mp:** 108 - 110 °C
TLC (R_f): 0.36 EtOAc (100%)
Chemical Purity: 99.9%
Optical Purity (ee): 99% ee by Chiral LC
¹H-NMR (300 MHz): Analytical data confirm chemical structure
Mass Spec: Analytical data confirm chemical structure
Microanalysis: C, H, and N fit within 0,4% of theoretical calculation

Storage Conditions: Store at +4°C

Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
	Water	0	0	Insoluble
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)	2	4	Low solubility
	DMSO	46	>100 mM	Very soluble
	EtOH			Not Tested

Remarks:

QC Date: 4/8/2013

The purity of Axon products 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 Axon Catalogue ID and Batch number.

Caution: Not fully tested. For research purposes only