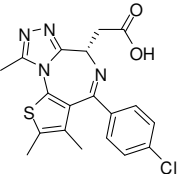


Certificate of Analysis

Axon Catalogue ID:	3822	Batch Number:	1
Product Name:	(+) -JQ1 carboxylic acid		
Alternative Name(s):	N.A.		
IUPAC Name:	(S,Z)-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)acetic acid		
Structure:			Amount:
CAS number(s):	202592-23-2		
Molecular Formula:	C ₁₉ H ₁₇ ClN ₄ O ₂ S	Molecular Weight:	400.88
Batch Molecular Formula:	C ₁₉ H ₁₇ ClN ₄ O ₂ S	Batch Molecular Weight:	400.88
Appearance:	White solid	Observed mp:	271.8 - 274.1 °C
TLC (R_f):	0.4	DCM/MeOH/AcOH (9:1:0.1)	
Chemical Purity:	99.6%		
Optical Purity (ee):	Optically pure		
Optical Rotation (Det.):	[α] _D = +24.1° with c = 1 in MeOH		
¹H-NMR:	Analytical data confirm chemical structure		
Mass Spec:	Analytical data confirm chemical structure		
Microanalysis:	Calculated: C 56.93, H 4.27, N 13.98; Found: C 56.74, H 4.20, N 14.03		
Storage Conditions:	Store at +4 °C		
Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM)
	Water	0.0	0.0
	0.1N NaOH (aq)	13.6	33.9
	0.1N HCl (aq)	0.0	0.0
	DMSO	6.4	16.0
	EtOH	18.0	44.9
Remarks:			
QC Date:	3-3-2023		

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