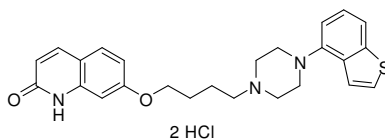




Certificate of Analysis

Axon Catalogue ID: 2335 **Batch Number:** 1
Product Name: Brexpiprazole dihydrochloride
Alternative Name(s): OPC 34712 dihydrochloride
IUPAC Name: 7-(4-(4-(Benzo[b]thiophen-4-yl)piperazin-1-yl)butoxy)quinolin-2(1H)-one dihydrochloride

Structure:



Amount:

CAS number: 913612-38-1
Batch Molecular Formula: C₂₅H₂₇N₃O₂S₂·2HCl **Batch MW:** 506.49
Appearance: Off-white solid **Observed mp:** 135.1 °C (decomp)
TLC (R_f): 0.63 DCM/MeOH (9:1)
Chemical Purity: 98.1%
Optical Purity (ee): N.A.
¹H-NMR (300 MHz): Analytical data confirm chemical structure
Mass Spec: Analytical data confirm chemical structure
Microanalysis: Calculated: C 59.28 , H 5.77 , N 8.30 Found: C 59.61 , H 5.58 , N 8.27
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)			Not Tested
	DMSO	45.0	88.8	
	EtOH			Not Tested

Remarks:

QC Date: 16-03-2015

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