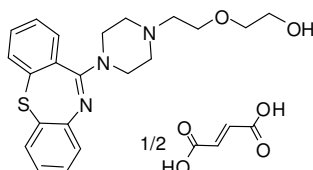


Certificate of Analysis

Axon Catalogue ID: 1354 **Batch Number:** 1
Product Name: Quetiapine fumarate
Alternative Name(s): ICI 204636; ZD 5077; ZM 204636
IUPAC Name: 2-[2-(4-Dibenzo[b,f][1,4]thiazepin-11-yl-piperazin-1-yl)-ethoxy]-ethanol fumarate

Structure:



Amount:

CAS number(s): 111974-69-7 (parent), 111974-72-2 (fumarate (2:1))
Molecular Formula: C₂₁H₂₅N₃O₂S.1/2C₄H₄O₄ **Molecular Weight:** 441.54
Batch Molecular Formula: C₂₁H₂₅N₃O₂S.1/2C₄H₄O₄ **Batch Molecular Weight:** 441.54
Appearance: White solid **Observed mp:** 174 - 175 °C
TLC (R_f): N.A. N.A.
Chemical Purity: 99.7%
Optical Purity (ee): N.A.
¹H-NMR (300 MHz): Analytical data confirm chemical structure
Mass Spec: Analytical data confirm chemical structure
Microanalysis: Calculated: C 62.56, H 6.16, N 9.52, Other: 7.26; Found: C ND, H ND, N ND, Other: ND
Storage Conditions: Desiccate at +4 °C

Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
	Water			Not Tested
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)			Not Tested
	DMSO	44.2	>100 mM	
	EtOH			Not Tested

Remarks:

QC Date: 19-07-2019

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