



Certificate of Analysis

Axon Catalogue ID:	3396	Batch Number:	1
Product Name:	Vardenafil dihydrochloride		
Alternative Name(s):	BAY 38-9456		
IUPAC Name:	2-(2-Ethoxy-5-(4-ethylpiperazin-1-ylsulfonyl)phenyl)-5-methyl-7-propylimidazo[1,5-f][1,2,4]triazin-4(3H)-one dihydrochloride		
Structure:			Amount:
CAS number(s):	224785-90-4 (parent), 224789-15-5 (HCl (1:2))		
Molecular Formula:	C ₂₃ H ₃₂ N ₆ O ₄ S.2HCl	Molecular Weight:	561.52
Batch Molecular Formula:	C ₂₃ H ₃₂ N ₆ O ₄ S.2HCl.2H ₂ O	Batch Molecular Weight:	597.56
Appearance:	White solid	Observed mp:	155 °C (decomp)
TLC (R_f):	0.44	DCM/MeOH (9:1)	
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 46.23, H 6.41, N 14.06, Cl 11.87; Found: C 45.91, H 6.44, N 13.95, Cl 11.73		
Storage Conditions:	Desiccate at -20 °C		
Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM)
	Water	59.8	>100 mM
	0.1N NaOH (aq)		Not Tested
	0.1N HCl (aq)		Not Tested
	DMSO	59.8	>100 mM
	EtOH		Not Tested
Remarks:			
QC Date:	08-06-2021		

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