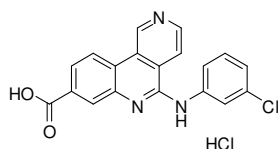




Certificate of Analysis

Axon Catalogue ID: 1965 **Batch Number:** 1
Product Name: CX 4945 hydrochloride
Alternative Name(s): Silmitasertib hydrochloride
IUPAC Name: 5-(3-chlorophenylamino)benzo[c][2,6]naphthyridine-8-carboxylic acid hydrochloride

Structure:



Amount:

CAS number(s): 1009820-21-6 (parent), 2108312-01-0 (HCl (1:1))
Molecular Formula: C₁₉H₁₂ClN₃O₂.HCl **Molecular Weight:** 386.23
Batch Molecular Formula: C₁₉H₁₂ClN₃O₂.HCl.1.75H₂O **Batch Molecular Weight:** 417.76
Appearance: Yellow solid **Observed mp:** ND
TLC (R_f): 0.29 DCM/MeOH (9:1)
Chemical Purity: 98.4%
Optical Purity (ee): N.A.
¹H-NMR (300 MHz): Analytical data confirm chemical structure
Mass Spec: Analytical data confirm chemical structure
Microanalysis: Calculated: C 54.63, H 3.98, N 10.06; Found: C 54.50, H 3.53, N 9.68
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)	9.1	21.9	
	0.1N HCl (aq)			Not Tested
	DMSO	41.8	>100 mM	
	EtOH			Not Tested

Remarks:

QC Date: 23-5-2018

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