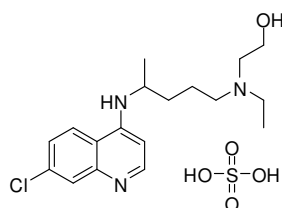




Certificate of Analysis

Axon Catalogue ID: 2432 **Batch Number:** 2
Product Name: Hydroxychloroquine sulfate
Alternative Name(s): NSC 4375
IUPAC Name: 2-((4-(7-Chloroquinolin-4-ylamino)pentyl)(ethyl)amino)ethanol sulfate

Structure:



Amount:

CAS number(s): 118-42-3 (parent), 747-36-4 (sulfate (1:1))
Molecular Formula: C₁₈H₂₆ClN₃O.H₂SO₄ **Molecular Weight:** 433.95
Batch Molecular Formula: C₁₈H₂₆ClN₃O.H₂SO₄.0.5H₂O **Batch Molecular Weight:** 442.96
Appearance: White solid **Observed mp:** 154 - 156 °C
TLC (R_f): 0.4 DCM/MeOH/NH₃ (9:1:0.1NH₃)
Chemical Purity: 99.8%
Optical Purity (ee): N.A.
¹H-NMR (300 MHz): Analytical data confirm chemical structure
Mass Spec: Analytical data confirm chemical structure
Microanalysis: Calculated: C 48.81, H 6.60, N 9.49; Found: C 48.66, H 6.95, N 9.41
Storage Conditions: Desiccate at +4 °C

Solubility Data:	Solvent	Solubility (mg/ml)	Solubility (mM)	Remarks
	Water	44.3	>100 mM	
	0.1N NaOH (aq)			Not Tested
	0.1N HCl (aq)			Not Tested
	DMSO	0.0	0.0	Insoluble
	EtOH			Not Tested

Remarks:

QC Date: 18-06-2020

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