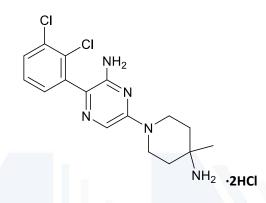


Certificate of Analysis



B. I. (N.	
Product Name:	SHP099 (Dihydrochloride)
Synonym	NA
CAS No:	1801747-11-4 (HCl salt)
Prod. No:	CT-SHP099
Lot No:	06
Batch Empirical Formula Batch Empirical Wt.	C ₁₆ H ₁₉ Cl ₂ N₅ • 2HCl • 0.2H ₂ O 428.8
Solubility	Soluble in DMSO (21.4 mg/ml, 50 mM) at 50 °C in Water (10.3mg/ml, 24.0mM) at 60 °C, a clear solution
Storage	Store at 0 °C (short term), - 20 °C (long term), desiccated

Appearance	Pale yellow powder
Quality Control	¹ HNMR: [√] HPLC: [√] Quantitative Elemental Analysis: [√] C ₁₆ H ₁₉ Cl ₂ N ₅ • 2HCl • 0.2H ₂ O Calculated: C: 44.82%; H: 5.03%; N: 16.33%, Cl: 33.07% Found: C: 44.93%; H: 5.02%; N: 16.36%, Cl: 33.11%
Chemical Purity	>99% (HPLC at 214 nm)