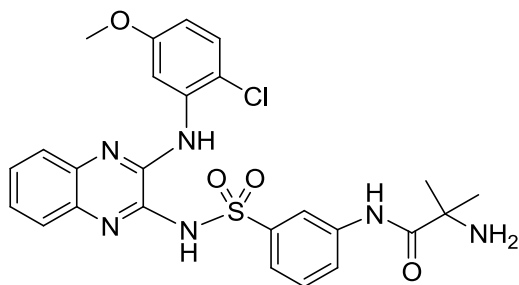


Certificate of Analysis



Product Name:	XL-147
Synonym:	Pilaralisib, SAR245408
CAS No:	934526-89-3
Prod. No:	CT-XL147
Lot No:	02
Batch Empirical Formula Batch Empirical Wt.	C ₂₅ H ₂₅ ClN ₆ O ₄ S•0.5HCl 559.3
Solubility	Soluble in DMSO
Storage	Store at 0 °C (short term), -20 °C (long term), desiccated

Appearance	Pale yellow powder
Quality Control	MS: [✓] ¹ HNMR: [✓] HPLC: [✓] Quantitative Elemental Analysis: [✓] C₂₅H₂₅ClN₆O₄S•0.5HCl Calculated: C: 53.69% H: 4.60% N: 15.03% Found: C: 53.69% H: 4.59% N: 15.00%
Loss on Drying	< 0.2%
Chemical Purity	>99% (HPLC at 215 and 254 nm)