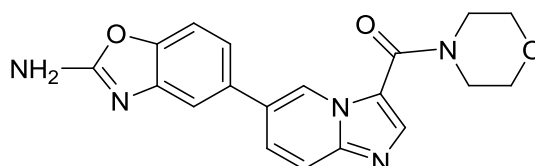


**Northeast Business Center**

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## Certificate of Analysis



<b>Product Name:</b>	<b>Serabelisib</b>
<b>Synonym:</b>	MLN1117, TAK-117, INK1117
<b>CAS No:</b>	1268454-23-4
<b>Prod. No:</b>	CT-SERA
<b>Lot No:</b>	01
Batch Empirical Formula Batch Empirical Wt.	C <sub>19</sub> H <sub>17</sub> N <sub>5</sub> O <sub>3</sub> ·H <sub>2</sub> O·0.2HCl 388.7
Solubility	Soluble in DMSO (9.7mg/ml, 25 mM), 50 °C
Storage	Store at 0 °C (short term), -20 °C ( long term), desiccated

<b>Appearance</b>	Milk-White powder, recrystallized
<b>Quality Control</b>	MS: [✓] <sup>1</sup> HNMR: [✓] HPLC: [✓] Quantitative Elemental Analysis [✓]: C <sub>19</sub> H <sub>17</sub> N <sub>5</sub> O <sub>3</sub> ·H <sub>2</sub> O·0.2HCl Calculated: C: 58.71% H: 4.98% N: 18.02% Found: C: 58.52% H: 4.98% N: 18.01%
<b>Loss on Drying</b>	< 0.2%
<b>Chemical Purity</b>	>99% (HPLC at 214 and 254 nm)