

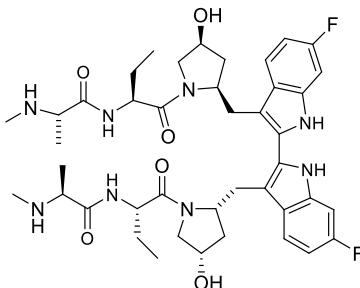


Northeast Business Center

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## Certificate of Analysis



<b>Product Name:</b>	<b>Birinapant</b>
<b>Synonym:</b>	TL-32711
<b>CAS No:</b>	1260251-31-7
<b>Prod. No:</b>	CT-BIRI
<b>Lot No:</b>	05
<b>Batch Empirical Formula Batch Mol. Wt.</b>	C <sub>42</sub> H <sub>56</sub> F <sub>2</sub> N <sub>8</sub> O <sub>6</sub> · H <sub>2</sub> O 825.0
<b>Solubility:</b>	Soluble in DMSO (82.5mg/ml, 100mM) 0.1HCl (41.3mg/ml, 50mM)
<b>Storage:</b>	Store at 0 °C (short term), -20 °C ( long term), desiccated

<b>Appearance</b>	Milk-white Powder
<b>Quality Control</b>	MS: [√] <sup>1</sup> H-NMR: [√] Achiral HPLC: [√] Chiral HPLC: [√] <b>Quantitative Elemental Analysis: [√] C<sub>42</sub>H<sub>56</sub>F<sub>2</sub>N<sub>8</sub>O<sub>6</sub> · H<sub>2</sub>O</b> Calculated: C: 61.15%; H: 7.09%; N: 13.58% Found: C: 61.23%; H: 7.05%; N: 13.48%
<b>Chemical Purity</b>	>99% (Achiral HPLC at 214 & 254 nm)
<b>Stereomeric Purity</b>	>99% (Chiral HPLC)