

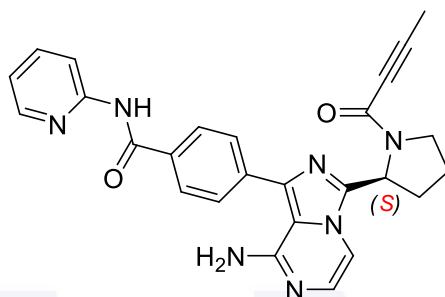


Northeast Business Center

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## Certificate of Analysis



<b>Product Name:</b>	<b>ACP-196 (Acalabrutinib)</b>
<b>Synonym:</b>	Acalabrutinib
<b>CAS No:</b>	1420477-60-6
<b>Prod. No:</b>	CT-ACP196
<b>Lot No:</b>	02
<b>Batch Empirical Formula</b> <b>Batch Mol. Wt.</b>	C <sub>26</sub> H <sub>23</sub> N <sub>7</sub> O <sub>2</sub> ·1.8H <sub>2</sub> O 497.9
<b>Solubility:</b>	Soluble in DMSO (39.8mg/ml, 80mM) at 45 °C
<b>Storage:</b>	Store at 0 °C (short term), -20 °C (long term), desiccated

<b>Appearance</b>	White to off-White Powder (with faint yellow tint) Recrystallized
<b>Quality Control</b>	MS: [✓] <sup>1</sup> HNMR: [✓] HPLC: [✓] Chiral HPLC: [✓] Quantitative Elemental Analysis: [✓] C <sub>26</sub> H <sub>23</sub> N <sub>7</sub> O <sub>2</sub> ·1.8H <sub>2</sub> O Calculated: C: 62.71%; H: 5.38%; N: 19.69% Found: C: 62.39%; H: 5.39%; N: 19.76%
<b>Chemical Purity</b>	>99.8% (HPLC)
<b>Optical Purity (e.e)</b>	100% (Chiral HPLC)