

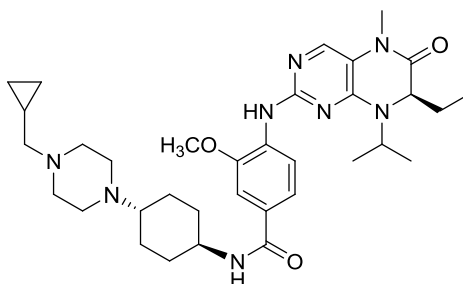


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## Certificate of Analysis



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| <b>Product Name:</b>                           | <b>BI 6727</b>   |
| <b>Synonym:</b>                                | Volasertib   |
| <b>CAS No:</b>                                 | 755038-65-4  |
| <b>Prod. No:</b>                               | CT-BI6727  |
| <b>Lot No:</b>                                 | 02   |
| Batch Empirical Formula<br>Batch Empirical Wt. | C <sub>34</sub> H <sub>50</sub> N <sub>8</sub> O <sub>3</sub> · 0.5H <sub>2</sub> O<br>627.8 |
| Solubility                                     | Soluble in DMSO, water with 2 eq. of acid  |
| Storage  | Store at 0 °C (short term), -20 °C (long term), desiccated                                   |

|                             |  |
|-----------------------------|--|
| <b>Appearance</b>           | White to off-white crystalline powder  |
| <b>Quality Control</b>      | MS: [✓]<br><sup>1</sup> HNMR: [✓]<br>HPLC: [✓]<br>Chiral HPLC: [✓]<br>Quantitative Elemental Analysis: [✓] C <sub>34</sub> H <sub>50</sub> N <sub>8</sub> O <sub>3</sub> ·0.5H <sub>2</sub> O<br>Calculated: C: 65.04%; H: 8.19%; N: 17.85%<br>Found: C: 65.08%; H: 8.25%; N: 17.88% |
| <b>Loss on Drying</b>       | < 0.2%   |
| <b>Chemical Purity</b>      | 99% (HPLC at 214 and 254nm)  |
| <b>Optical Purity (e.e)</b> | 99% (Chiral HPLC, referenced to opposite isomer)   |