

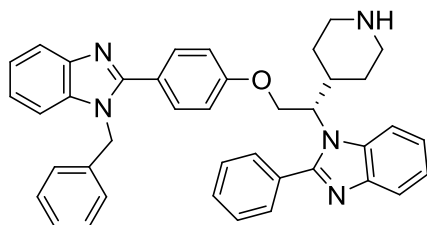


Northeast Business Center

7301 E. 90th Street, Suite 117, Indianapolis, IN 46256, USA

Phone: 317.598.0828 Fax: 317.598.0835 www.chemietek.com

## Certificate of Analysis



3.3HCl · 3H<sub>2</sub>O

<b>Product Name:</b>	<b>Deltarasin, HCl salt</b>
<b>Synonym:</b>	NA
<b>CAS No:</b>	1440898-82-7 ( HCl salt)    1440898-61-2 (Free base)
<b>Prod. No:</b>	CT-DELT
<b>Batch No:</b>	01
<b>Batch Empirical Formula</b>	C <sub>40</sub> H <sub>37</sub> N <sub>5</sub> O · 3.3 HCl · 3H <sub>2</sub> O
<b>Batch Empirical Wt.</b>	778.1
<b>Solubility</b>	Soluble in: DMSO (77.8mg/ml, 100 mM) Water (77.8mg/ml, 100 mM)
<b>Storage</b>	Store at 0 °C (short term), -20 °C ( long term), desiccated

<b>Appearance</b>	White powder
<b>Quality Control</b>	MS: [✓] <sup>1</sup> HNMR: [✓] HPLC: [✓] Chiral HPLC: [✓] <b>Quantitative Elemental Analysis: [✓] C<sub>40</sub>H<sub>37</sub>N<sub>5</sub>O · 3.3 HCl · 3H<sub>2</sub>O</b> Theory: C: 61.74%    H: 6.00%    N: 9.00% Found: C: 62.00%    H: 5.92%    N: 8.90%
<b>Chemical Purity</b>	99.5% (by HPLC at 220 nm)
<b>Optical Purity (ee)</b>	99.5% (by Chiral HPLC at 220 nm)