

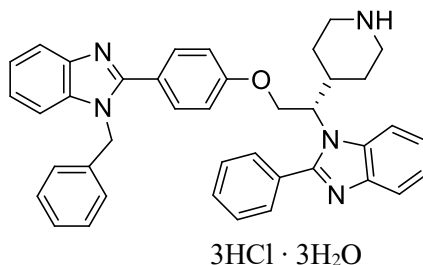


Northeast Business Center

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

Phone: 317.598.0828 Fax: 317.598.0835 www.chemietek.com

Certificate of Analysis



Product Name:	Deltarasin, HCl salt
Synonym:	NA
CAS No:	1440898-82-7 (HCl salt) 1440898-61-2 (Free base)
Prod. No:	CT-DELT
Batch No:	01
Batch Empirical Formula	$\text{C}_{40}\text{H}_{37}\text{N}_5\text{O} \cdot 3 \text{HCl} \cdot 3\text{H}_2\text{O}$
Batch Empirical Wt.	767.2
Solubility	Soluble in: DMSO (76.7mg/ml, 100 mM) Water (38.4/ml, 50 mM)
Storage	Store at 0 °C (short term), -20 °C (long term), desiccated

Appearance	White powder
Quality Control	MS: [✓] ¹ HNMR: [✓] HPLC: [✓] Chiral HPLC: [✓] Quantitative Elemental Analysis: [✓] $\text{C}_{40}\text{H}_{37}\text{N}_5\text{O} \cdot 3 \text{HCl} \cdot 3\text{H}_2\text{O}$ Theory: C: 62.62% H: 6.04% N: 9.13% Found: C: 62.00% H: 5.92% N: 8.90%
Chemical Purity	99.5% (by HPLC at 220 nm)
Optical Purity (ee)	99.5% (by Chiral HPLC at 220 nm)