

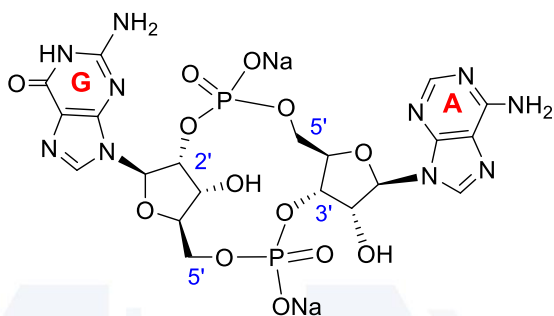


Northeast Business Center

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:	2',3'-cGAMP Disodium
Synonym:	2',3'-cyclic GMP-AMP Sodium Salt
CAS No:	1441190-66-4
Prod. No:	CT-CGMAP
Lot No:	02
Batch Empirical Formula Batch Empirical Wt.	C ₂₀ H ₂₂ N ₁₀ O ₁₃ P ₂ ·2Na 718.4
Solubility	Soluble in Water (>35.9mg/ml, >50 mM)
Storage	Store at 0 °C (short term), -20 °C (long term), dark, and desiccated

Appearance	Snow-white crystalline powder
Quality Control	MS: [✓] HPLC: [✓] ¹ H-NMR: [✓] ³¹ P-NMR: [✓]
Chemical Purity	99.5% (HPLC)