

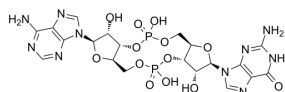
## Certificate of Analysis

**Product Name:** cGAMP  
**Cat. No.:** HY-12512  
**CAS No.:** 849214-04-6  
**Batch No.:** 31348  
**Chemical Name:** 3'-Guanylic acid, adenylyl-(3'→5')-, cyclic nucleotide

### PHYSICAL AND CHEMICAL PROPERTIES

**Molecular Formula:** C<sub>20</sub>H<sub>24</sub>N<sub>10</sub>O<sub>13</sub>P<sub>2</sub>  
**Molecular Weight:** 674.41  
**Storage:**  
Powder      -20°C      3 years  
                  4°C        2 years  
In solvent   -80°C      6 months  
                  -20°C      1 month

### Chemical Structure:



### ANALYTICAL DATA

**Appearance:** White to yellow (Solid)  
**<sup>1</sup>H NMR Spectrum:** Consistent with structure  
**LCMS:** Consistent with structure  
**Purity (HPLC):** 98.56%  
**Conclusion:** The product has been tested and complies with the given specifications.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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