

Certificate of Analysis

www.tocris.com

Product Name: 3',3'-cGAMP sodium salt

Catalog No.: 5946

Batch No.: 2

CAS Number: 2407516-83-8

IUPAC Name: 3',3'-Cyclic guanosine monophosphate-adenosine monophosphate sodium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₂₂N₁₀Na₂O₁₃P₂

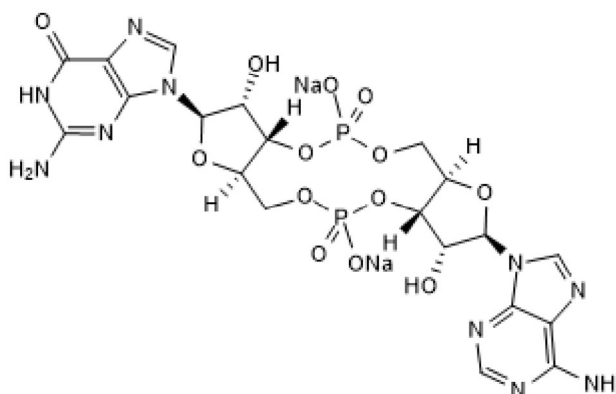
Batch Molecular Weight: 718.37

Physical Appearance: lyophilised solid

Solubility: water to 10 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100.0% purity

Mass Spectrum: Consistent with structure

Caution - Not Fully Tested • Research Use Only • Not For Human or Veterinary Use

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CAS Number: 2407516-83-8

IUPAC Name: 3',3'-Cyclic guanosine monophosphate-adenosine monophosphate sodium salt

Description:

3',3'-cGAMP sodium salt is a STING agonist. Reduces B cell proliferation and induces apoptosis of malignant B cells in vitro. Suppresses 5TGM1 multiple myeloma xenograft growth in immunodeficient mice, and induces leukemic regression in Eμ-TCL1 mice. This product is sold in units of 359μg, equivalent to 0.5μmol.

Physical and Chemical Properties:

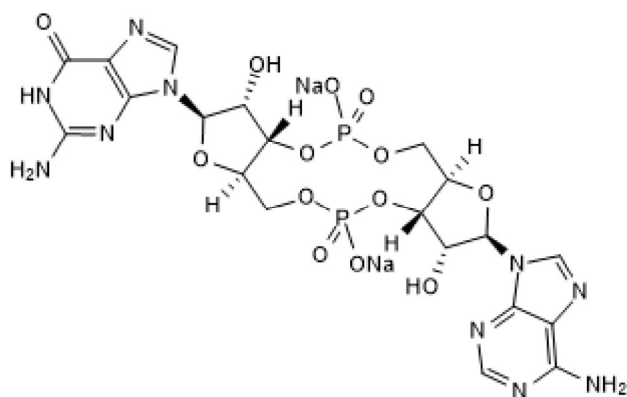
Batch Molecular Formula: C₂₀H₂₂N₁₀Na₂O₁₃P₂

Batch Molecular Weight: 718.37

Physical Appearance: lyophilised solid

Minimum Purity: ≥98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

water to 10 mM

This product is supplied in lyophilized form. It may appear as a solid, gel or film and be very hard to visualize. Solutions should be made by adding solvent directly to the vial. The vial should then be vortexed vigorously to ensure the product has completely dissolved.

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a 45-60°C water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. *Unless contradicted by product-specific protocols or instructions, our standard recommendations apply:

SOLIDS: Provided storage is as stated on the product label and the vial is kept tightly sealed, the product can be stored for up to 6 months from date of receipt.

SOLUTIONS: We recommend that stock solutions, once prepared, are stored aliquoted in tightly sealed vials at -20°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Tang et al (2016) Agonist-mediated activation of STING induces apoptosis in malignant B cells. *Cancer Res.* **76** 2137. PMID: 26951929.

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