

Product Name: c-Di-AMP sodium salt

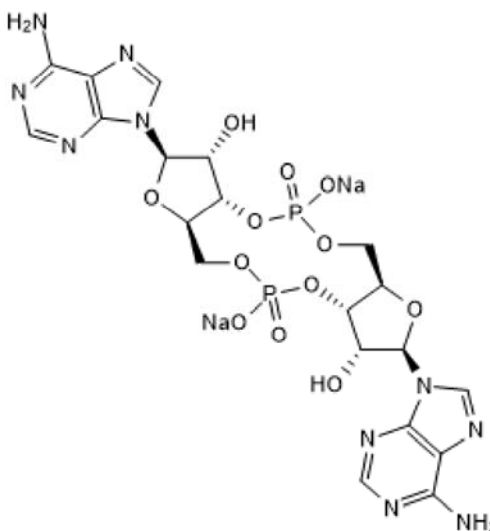
Catalog No.: 5901

Batch No.: 3

IUPAC Name: 3',5'-Cyclic diadenylic acid sodium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₂₀H₂₂N₁₀Na₂O₁₂P₂
Batch Molecular Weight: 702.38
Physical Appearance: White lyophilised solid
Solubility: water to 20 mM
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.7% purity
Mass Spectrum: Consistent with structure

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

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Description:

Endogenous STING and DDX41 agonist; mediates DDX41-STING interaction. Activates STING-dependent IFN- β production in mouse and human cells. Also A_{2A} inverse agonist. Selectively induces apoptosis of monocytes in human PBMC cultures and in NSG mice transplanted with human CD34⁺ cells. This product is sold in units of 702 μ g, equivalent to 1 μ mol.

Physical and Chemical Properties:

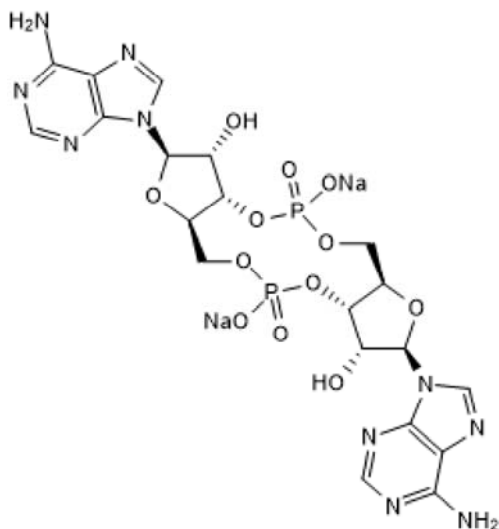
Batch Molecular Formula: C₂₀H₂₂N₁₀Na₂O₁₂P₂

Batch Molecular Weight: 702.38

Physical Appearance: White lyophilised solid

Minimum Purity: \geq 98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

water to 20 mM

This product is supplied as a lyophilized solid and may 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. Our standard recommendations are:

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:

Tosolini *et al* (2015) Human monocyte recognition of adenosine-based cyclic dinucleotides unveils the A_{2a} G_{as} protein-coupled receptor tonic inhibition of mitochondrially induced cell death. *Mol.Cell.Biol.* **35** 479. PMID: 25384972 .

Parvatiyar *et al* (2012) The helicase DDX41 recognizes the bacterial secondary messengers cyclic di-GMP and cyclic di-AMP to activate a type I IF. immune response. *Nat.Immunol.* **13** 1155. PMID: 23142775.

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