

Certificate of Analysis

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Product Name: α,β -Methyleneadenosine 5'-triphosphate trisodium salt

Catalog No.: 3209

Batch No.: 7

CAS Number: 1343364-54-4

EC Number: 230-723-9

IUPAC Name: α,β -Methyleneadenosine 5'-triphosphate trisodium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₁H₁₅N₅Na₃O₁₂P₃

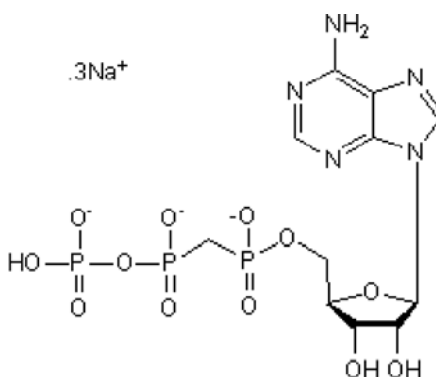
Batch Molecular Weight: 571.15

Physical Appearance: White solid

Solubility: water to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.6% purity

¹H NMR: Consistent with structure

Mass Spectrum: Consistent with structure

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

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CAS Number: 1343364-54-4	EC Number: 230-723-9	
IUPAC Name: α,β -Methyleneadenosine 5'-triphosphate trisodium salt		

Description:

P2-purinoceptor agonist. Also shown to inhibit adenylate cyclase ($K_i = 0.5$ mM).

Physical and Chemical Properties:

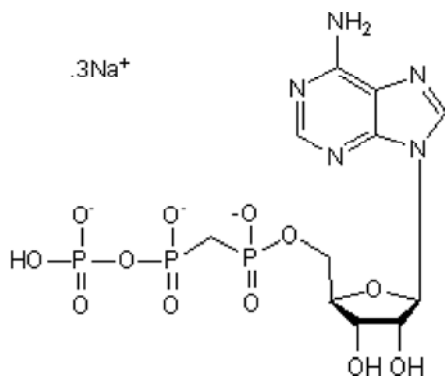
Batch Molecular Formula: $C_{11}H_{15}N_5Na_3O_{12}P_3$

Batch Molecular Weight: 571.15

Physical Appearance: White solid

Minimum Purity: $\geq 98\%$

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

water to 100 mM

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a $45-60^\circ\text{C}$ 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:

Burnstock and Kennedy (1985) Is there a basis for distinguishing two types of P2-purinoceptor? *Gen.Pharmacol* **16** 433. PMID: 2996968.

Krug et al (1973) α,β -Methylene-adenosine 5'-triphosphate. *J.Biol.Chem.* **248** 1203. PMID: 4686923.

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