

# Certificate of Analysis

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**Product Name:**  $\alpha,\beta$ -Methyleneadenosine 5'-triphosphate trisodium salt

**Catalog No.:** 3209

**Batch No.:** 8

**CAS Number:** 1343364-54-4

**EC Number:** 230-723-9

**IUPAC Name:**  $\alpha,\beta$ -Methyleneadenosine 5'-triphosphate trisodium salt

## 1. PHYSICAL AND CHEMICAL PROPERTIES

**Batch Molecular Formula:** C<sub>11</sub>H<sub>15</sub>N<sub>5</sub>Na<sub>3</sub>O<sub>12</sub>P<sub>3</sub>

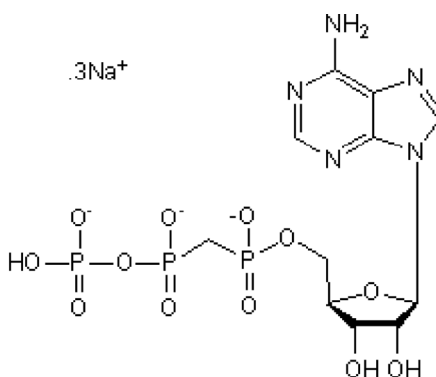
**Batch Molecular Weight:** 571.15

**Physical Appearance:** White solid

**Solubility:** water to 100 mM

**Storage:** Store at -20°C

**Batch Molecular Structure:**



## 2. ANALYTICAL DATA

**HPLC:** Shows 98.3% purity

**<sup>1</sup>H 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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<b>Product Name:</b>	<b><math>\alpha,\beta</math>-Methyleneadenosine 5'-triphosphate trisodium salt</b>	<b>Catalog No.:</b>	<b>3209</b>	<b>Batch No.:</b>	<b>8</b>
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**Description:**

$\alpha,\beta$ -Methyleneadenosine 5'-triphosphate trisodium salt is a P2-purinoceptor agonist. Also shown to inhibit adenylate cyclase ( $K_i$  = 0.5 mM).

**Physical and Chemical Properties:**

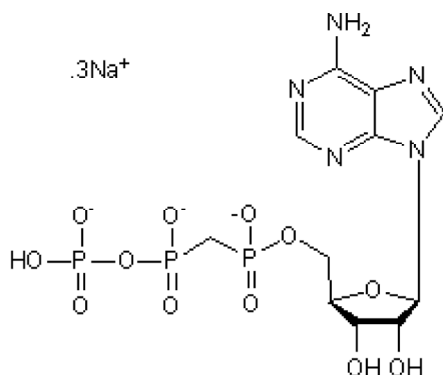
Batch Molecular Formula:  $C_{11}H_{15}N_5Na_3O_{12}P_3$

Batch Molecular Weight: 571.15

Physical Appearance: White solid

**Minimum Purity:**  $\geq 98\%$

**Batch Molecular Structure:**



**Storage:** Store at  $-20^{\circ}\text{C}$

**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. \*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  $-20^{\circ}\text{C}$  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)  $\alpha,\beta$ -Methylene-adenosine 5'-triphosphate. *J.Biol.Chem.* **248** 1203. PMID: 4686923.

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