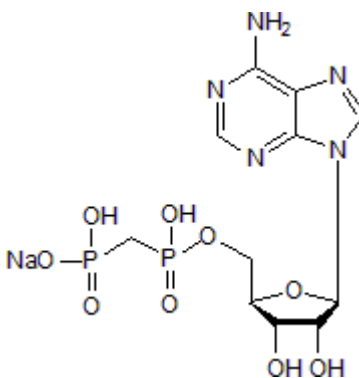


Certificate of Analysis

Product Name: Adenosine 5'-(α,β -methylene)diphosphate sodium salt **Catalog No.:** 3633 **Batch No.:** 2
CAS Number: 89016-30-8
IUPAC Name: α,β -Methyleneadenosine 5'-diphosphate monosodium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{11}H_{16}N_5NaO_9P_2$
Batch Molecular Weight: 447.21
Physical Appearance: Colourless liquid
Solubility: Soluble in water (supplied pre-dissolved at a concentration of 10mM)
Storage: Store at -20°C
Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100% purity
Mass Spectrum: Consistent with structure

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

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Description:

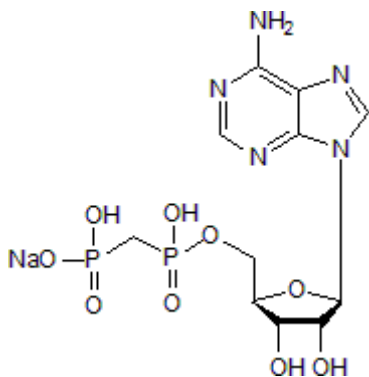
Ecto-5'-nucleotidase/CD73 inhibitor. Blocks ecto-5'-nucleotidase-mediated adenosine production by preventing the conversion of AMP to adenosine. Reverses the doxorubicin-resistance in ecto-5'-nucleotidase-positive MDR cells (MCF7/A6 and L1210/A). Also increases rhodamine uptake and inhibits rhodamine efflux from ecto-5'-nucleotidase-positive MDR cells. Vasoconstrictor.

Physical and Chemical Properties:

Batch Molecular Formula: C₁₁H₁₆N₅NaO₉P₂
 Batch Molecular Weight: 447.21
 Physical Appearance: Colourless liquid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

Soluble in water (supplied pre-dissolved at a concentration of 10mM)

This compound is supplied in aqueous solution at a concentration of 10mM.

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:

Kur et al (2014) Purinergic control of vascular tone in the retina. *J.Physiol.* **592** 491. PMID: 24277867.
Niemelä et al (2008) IFN-beta regulates CD73 and adenosine expression at the blood-brain barrier. *Eur.J.Immunol.* **38** 2718. PMID: 18825744.
Ujházy et al (1996) Evidence for the involvement of ecto-5'-nucleotidase (CD73) in drug resistance. *Int.J.Cancer.* **68** 493. PMID: 8945621.

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