

Product Name: cAMPS-Sp, triethylammonium salt

Catalog No.: 1333

Batch No.: 7

CAS Number: 93602-66-5

IUPAC Name: (S)-Adenosine, cyclic 3',5'-(hydrogenphosphorothioate) triethylammonium

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀H₁₂N₅O₅PS.C₆H₁₅N

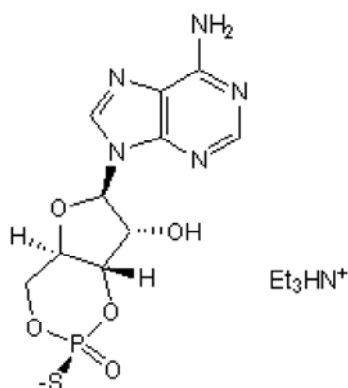
Batch Molecular Weight: 446.46

Physical Appearance: White lyophilised solid

Solubility: water to 100 mM

Storage: Desiccate at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 99.9% purity

Mass Spectrum: Consistent with structure

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

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IUPAC Name: (S)-Adenosine, cyclic 3',5'-(hydrogenphosphorothioate) triethylammonium

Description:

Cell-permeable cAMP analog that activates cAMP receptor proteins such as PKA and cAMP-regulated guanine nucleotide exchange factor. R-enantiomer also available.

Physical and Chemical Properties:

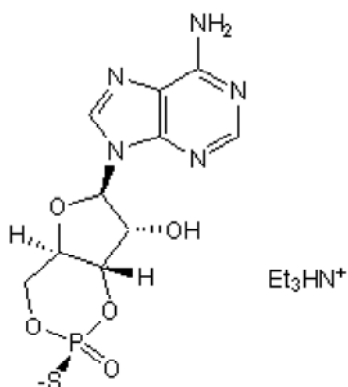
Batch Molecular Formula: C₁₀H₁₂N₅O₅PS.C₆H₁₅N

Batch Molecular Weight: 446.46

Physical Appearance: White lyophilised solid

Minimum Purity: >98%

Batch Molecular Structure:



Storage: Desiccate at -20°C

Solubility & Usage Info:

water to 100 mM

CAUTION - This product is hygroscopic and we recommend that it is desiccated upon arrival. Solutions should be made up as soon as the vial is opened. 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:

Lin *et al* (2006) Ethanol inhibition of NMDA-induced responses and acute tolerance to the inhibition in rat rostral ventrolateral medulla in vivo: Involvement of cAMP-dependent protein kinases. *Neuropharmacology* **51** 747. PMID: 16806304.

Kawasaki *et al* (1998) A family of cAMP-binding proteins that directly activate Rap1. *Science* **282** 2275. PMID: 9856955.

Dostmann *et al* (1990) Probing the cyclic nucleotide binding sites of cAMP-dependent protein kinases I and II with analogs of adenosine 3',5'-cyclic phosphorothioates. *J.Biol.Chem.* **265** 10484. PMID: 2162349.

O'Brian *et al* (1982) A kinetic study of interactions of (R_p)- and (S_p)-adenosine cyclic 3',5'-phosphorothioates with type II bovine cardiac muscle adenosine cyclic 3',5'-phosphate dependent protein kinase. *Biochemistry* **21** 4371. PMID: 6289880.

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