



Certificate of Analysis

www.tocris.com

Product Name: cAMPS-Sp, triethylammonium salt Catalog No.: 1333 Batch No.: 5

CAS Number: 93602-66-5

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: $C_{10}H_{12}N_5O_5PS.C_6H_{15}N$

Batch Molecular Weight: 446.46

Physical Appearance: White lyophilised solid

Solubility: water to 100 mM Storage: Store at -20°C

Batch Molecular Structure:

2. ANALYTICAL DATA

HPLC: Shows >99.8% purity **Mass Spectrum:** Consistent with structure

Product Information

Print Date: Feb 25th 2025

www.tocris.com

Batch No.: 5

Product Name: cAMPS-Sp, triethylammonium salt

CAS Number: 93602-66-5

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

Description:

cAMPS-Sp, triethylammonium salt is a 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: $C_{10}H_{12}N_5O_5PS.C_6H_{15}N$

Batch Molecular Weight: 446.46

Physical Appearance: White lyophilised solid

Minimum Purity: ≥98%

Batch Molecular Structure:

Storage: Store at -20°C

Solubility & Usage Info:

water to 100 mM

This product is supplied in lyophilized form. It may appear as a solid, gel or film and 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.

Catalog No.: 1333

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. *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°C or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

Other Information:

This product is supplied as a lyophilised solid and may be very hard to visualise. 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.

References:

Lin *et al* (2006) Ethanol inhibition of NMDA-induced responses and actute 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.

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