

Product Name: cAMPS-Rp, triethylammonium salt

Catalog No.: 1337

Batch No.: 15

CAS Number: 151837-09-1

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

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: C₁₀H₁₂N₅O₅PS.C₆H₁₅N

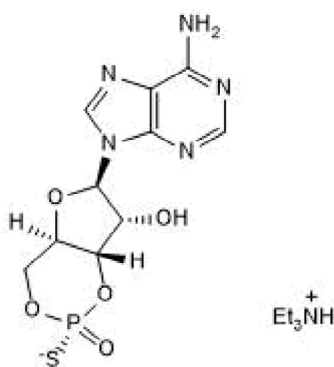
Batch Molecular Weight: 446.46

Physical Appearance: White solid

Solubility: water to 100 mM

Storage: Store at -20°C

Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Shows 100.0% purity

Mass Spectrum: Consistent with structure

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

bio-techne.com

info@bio-techne.com

techsupport@bio-techne.com

North America

Tel: (800) 343 7475

China

info.cn@bio-techne.com

Tel: +86 (21) 52380373

Europe Middle East Africa

Tel: +44 (0)1235 529449

Rest of World

www.tocris.com/distributors

Tel: +1 612 379 2956

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Description:

cAMPS-Rp, triethylammonium salt is a cell-permeable cAMP analog; acts as a competitive antagonist of cAMP-induced activation of PKA ($IC_{50} = 11 - 16 \mu M$) by interacting with cAMP binding sites on the regulatory subunits. Resistant to hydrolysis by phosphodiesterases.

Physical and Chemical Properties:

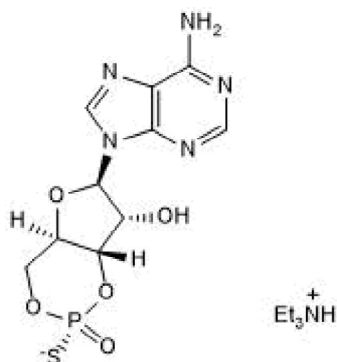
Batch Molecular Formula: $C_{10}H_{12}N_5O_5PS.C_6H_{15}N$

Batch Molecular Weight: 446.46

Physical Appearance: White solid

Minimum Purity: $\geq 98\%$

Batch Molecular Structure:



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

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.

Stability and Solubility Advice:

Some solutions can be difficult to obtain and can be encouraged by rapid stirring, sonication or gentle warming (in a $45-60^{\circ}C$ 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 $-20^{\circ}C$ or below and used within 1 month. Wherever possible solutions should be made up and used on the same day.

References:

Duca *et al* (2015) MetF. activates a duodenal Ampk-dependent pathway to lower hepatic glucose production in rats. *Nat.Med.* **21** 506. PMID: 25849133 .

Fu *et al* (2008) PKA and ERK, but not PKC, in the amygdala contribute to pain-related synaptic plasticity and behavior. *Mol.Pain* **4** 26. PMID: 18631385.

Kuriyama *et al* (1995) Isoproterenol inhibits rod outer segment phagocytosis by both cAMP-dependent and independent pathways. *Invest.Ophthalmol.Vis.Sci.* **36** 730. PMID: 7890503.

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