

**Product Name:** cAMPS-Rp, triethylammonium salt

**Catalog No.:** 1337

**Batch No.:** 14

CAS Number: 151837-09-1

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

**1. PHYSICAL AND CHEMICAL PROPERTIES**

**Batch Molecular Formula:** C<sub>10</sub>H<sub>12</sub>N<sub>5</sub>O<sub>5</sub>PS.C<sub>6</sub>H<sub>15</sub>N

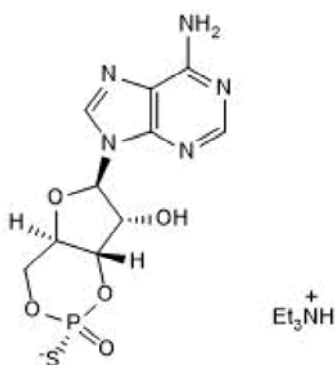
**Batch Molecular Weight:** 446.46

**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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**Description:**

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:**

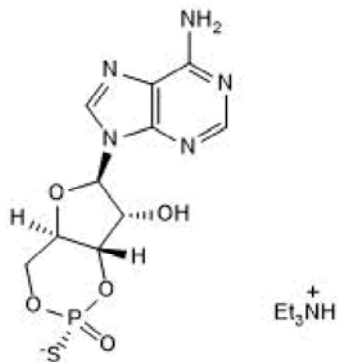
Batch Molecular Formula:  $C_{10}H_{12}N_5O_5PS \cdot C_6H_{15}N$

Batch Molecular Weight: 446.46

Physical Appearance: White lyophilised solid

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

**Batch Molecular Structure:**



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

**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  $45-60^{\circ}C$  water bath).

Information concerning product stability, particularly in solution, has rarely been reported and in most cases we can only offer a general guide. 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  $-20^{\circ}C$  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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