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DATASHEET

cAMPS-Rp, triethylammonium salt

Product overview

Name	cAMPS-Rp, triethylammonium salt
Cat No	HB0165
Biological action	Antagonist
Purity	>98%
Description	cAMP antagonist

Biological Data

Biological description	cAMP analog. Antagonises cAMP cell surface receptor, type I and II protein kinases. Competitive antagonist of c-AMP-induced PKA activation (IC_{50}. Inhibits pain-related synaptic plasticity in amygdala brain tissue. Cell permeable.

Solubility & Handling

Storage instructions	-20°C (desiccate)
Solubility overview	Soluble in water (100mM)
Important	This product is for RESEARCH USE ONLY and is not intended for therapeutic or diagnostic use. Not for human or veterinary use.

Chemical Data

Chemical name	(*R*)-Adenosine,cyclic3',5'-(hydrogenphosphorothioate)triethylammonium
Molecular Weight	446.46
Chemical structure	
Molecular Formula	$C_{10}H_{12}N_5O_5PS.C_6H_{15}N$
CAS Number	151837-09-1
PubChem identifier	5311365
SMILES	[H][C@@](O[C@@H](N3C=NC4=C3N=CN=C4N)[C@@H]2O)([H])CO1)2O[P@@]1([S-])=O.CC[NH+](CC)CC
InChiKey	FKAWLXNLHHIHLA-YCBIHMBMSA-N

References

PKA and ERK, but not PKC, in the amygdala contribute to pain-related synaptic plasticity and behavior.

Fu Y *et al* (2008) Mol Pain 4
PubMedID 18631385

Probing the cyclic nucleotide binding sites of cAMP-dependent protein kinases I and II with analogs of adenosine 3',5'-cyclic phosphorothioates.

Dostmann WR *et al* (1990) J Biol Chem 265(18)
PubMedID 2162349

Competitive cAMP antagonists for cAMP-receptor proteins.

Van Haastert PJ *et al* (1984) J Biol Chem 259(16)

PubMedID 6088478