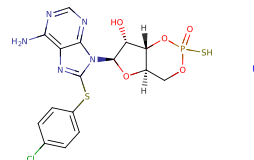


Rp-8-CPT-cAMPS sodium

Chemical Properties

CAS No. :	221905-35-7
Formula:	C ₁₆ H ₁₅ ClN ₅ NaO ₅ PS ₂
Molecular Weight:	510.86
Appearance:	no data available
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year



Biological Description

Description	Rp-8-CPT-cAMP is a structural combination of the lipophilic and non-hydrolyzable cAMP analogs, 8-CPT-cyclic AMP and Rp-cyclic AMPS. [1] It functions as a site-selective inhibitor of protein kinase A (PKA) type I and II, with preference towards site A of type I and site B of type II. 2 By occupying cAMP binding sites at the regulatory subunit of PKA, Rp-8-CPT-cAMP prevents the kinase holoenzyme from dissociative activation. [2],[3]
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Solubility Information

Solubility	DMSO: 25 mg/mL DMF: 30 mg/mL Ethanol: 0.5 mg/mL (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.9575 mL	9.7874 mL	19.5748 mL
5 mM	0.3915 mL	1.9575 mL	3.915 mL
10 mM	0.1957 mL	0.9787 mL	1.9575 mL
50 mM	0.0391 mL	0.1957 mL	0.3915 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Reference

Schwede, F., Maronde, F., Genieser, H., et al. Cyclic nucleotide analogs as biochemical tools and prospective drugs. *Pharmacology & Therapeutics* 87(2), 199-226 (2000).
Dostmann, W.R., Taylor, S.S., Genieser, H.G., et al.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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