

Product Name: 8-pCPT-2-O-Me-cAMP-AM

Catalog No.: 4853

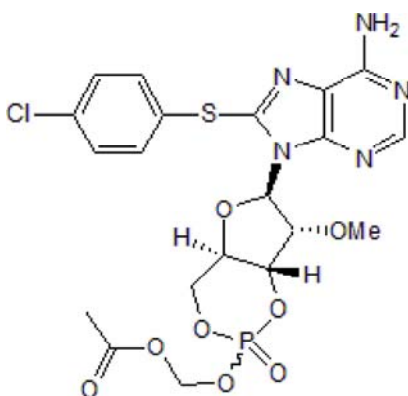
Batch No.: 1

CAS Number: 1152197-23-3

IUPAC Name: 8-(4-Chlorophenylthio)-2'-O-methyladenosine-3',5'-cyclic monophosphate acetoxymethyl ester

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula:	C ₂₀ H ₂₁ ClN ₅ O ₈ PS
Batch Molecular Weight:	557.9
Physical Appearance:	White lyophilised solid
Solubility:	DMSO to 100 mM
Storage:	Store at -20°C
Batch Molecular Structure:	



2. ANALYTICAL DATA

HPLC:	Shows 98% purity
Mass Spectrum:	Consistent with structure

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

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IUPAC Name: 8-(4-Chlorophenylthio)-2'-O-methyladenosine-3',5'-cyclic monophosphate acetoxymethyl ester

Description:

8-pCPT-2-O-Me-cAMP-AM is a selective Epac activator; cAMP analog. Induces Rap activation and junction tightening in HUVECs; triggers adhesion of Jurkat-Epac1 cells to fibronectin. Stimulates insulin secretion in rat INS-1 cells. More potent, cell-permeable analog of 8CPT-2Me-cAMP (Cat. No. 1645). This product is a mixture of axial and equatorial isomers. Both isomers give 8CPT-2Me-cAMP after esterase cleavage.

Physical and Chemical Properties:

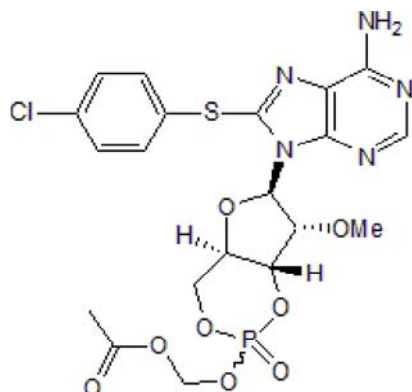
Batch Molecular Formula: C₂₀H₂₁ClN₅O₈PS

Batch Molecular Weight: 557.9

Physical Appearance: White lyophilised solid

Minimum Purity: ≥97%

Batch Molecular Structure:



References:

Almahariq et al (2013) A novel EPAC-specific inhibitor suppresses pancreatic cancer cell migration and invasion. *Mol.Pharmacol.* **83** 122. PMID: 23066090.

Tsalkova et al (2012) Isoform-specific antagonists of exchange proteins directly activated by cAMP. *Proc.Natl.Acad.Sci.U.S.A.* **109** 18613. PMID: 23091014.

Chepurny et al (2009) Enhanced Rap1 activation and Ins secretagogue properties of an acetoxymethyl ester of an Epac-selective cyclic AMP analog in rat INS-1 cells: studies with 8-pCPT-2'-O-Me-cAMP-AM. *J.Biol.Chem.* **284** 10728. PMID: 19244230.

Storage: Store at -20°C

Solubility & Usage Info:

DMSO to 100 mM

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

Licensing Information:

Sold with the permission of BioLog Life Science Institute.

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