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Certificate of Analysis

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Print Date: Feb 17th 2023

Product Name: Rp-8-pCPT-cGMPS sodium

Catalog No.: 5524 B

Batch No.: 1

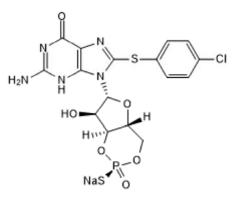
CAS Number: IUPAC Name: 208445-07-2

: 8-[(4-Chlorophenyl)thio]-guanosine-cyclic 3',5'-[hydrogen [*P*(*R*)]-phosphorothioate] sodium

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: C₁₆H₁₄ClN₅NaO₆PS₂ 525.86 White lyophilised solid water to 100 mM DMSO to 100 mM Store at -20°C

Storage: Batch Molecular Structure:



2. ANALYTICAL DATA

HPLC: Mass Spectrum:

Shows 99.9% purity Consistent with structure

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

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Product Information

1

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Product Name: Rp-8-pCPT-cGMPS sodium

CAS Number: 208445-07-2

IUPAC Name: 8-[(4-Chlorophenyl)thio]-guanosine-cyclic 3',5'-[hydrogen [P(R)]-phosphorothioate] sodium

Description:

Rp-8-pCPT-cGMPS sodium is a PKG inhibitor (K_i values are 0.45, 0.5 and 0.7 μ M for PKGI β , PKGI α and PKGII respectively). Exhibits selectivity for PKG over PKA and Epac-1. Reduces LTP in hippocampal slices in vitro.

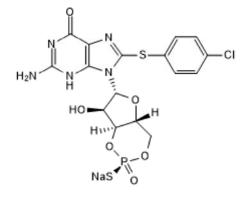
Physical and Chemical Properties:

Batch Molecular Formula: C₁₆H₁₄ClN₅NaO₆PS₂ Batch Molecular Weight: 525.86 Physical Appearance: White lyophilised solid

Physical Appearance. While tyophilised soli

Minimum Purity: ≥99%

Batch Molecular Structure:



Storage: Store at -20°C

Solubility & Usage Info:

water to 100 mM 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.

Catalog No.: 5524

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.

References:

Kim et al (2015) Network compensation of cyclic GMP-dependent protein kinase II knockout in the hippocampus by Ca²⁺-permeable AMPA receptors. Proc.Natl.Acad.Sci.U.S.A. **112** 3122. PMID: 25713349.

Poppe et al (2008) Cyclic nucleotide analogs as probes of signaling pathways. Nat.Methods 5 277. PMID: 18376388.

Gamm *et al* (1995) The type II isoform of cGMP-dependent protein kinase is dimeric and possesses regulatory and catalytic properties distinct from the type I isoforms. J.Biol.Chem. **270** 27380. PMID: 7593002.

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