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Certificate of Analysis

www.tocris.com

Product Name: Rp-8-Br-PET-cGMPS

Catalog No.: 3028 Batch No.: 4

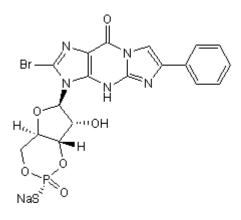
CAS Number: IUPAC Name: 185246-32-6

ame: 2-Bromo-3,4-dihydro-3-[3,5-O-[(*R*)-mercaptophosphinylidene]-β-D-ribofuranosyl]-6-phenyl-9*H*-Imidazo[1,2-*a*]purin-9one sodium salt

1. PHYSICAL AND CHEMICAL PROPERTIES

Batch Molecular Formula: Batch Molecular Weight: Physical Appearance: Solubility: C₁₈H₁₄BrN₅NaO₆PS 562.27 White lyophilised solid water to 20 mM DMSO to 40 mM Store at -20°C





2. ANALYTICAL DATA

HPLC: Mass Spectrum:

Shows 99.7% purity Consistent with structure

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

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Description:

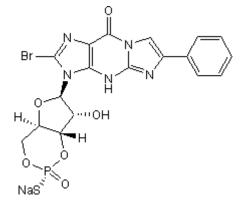
Competitive, reversible cGMP-dependent protein kinase (PKG) inhibitor; cGMP analog.

Physical and Chemical Properties:

Batch Molecular Formula: $C_{18}H_{14}BrN_5NaO_6PS$ Batch Molecular Weight: 562.27 Physical Appearance: White lyophilised solid

Minimum Purity: >99%

Batch Molecular Structure:



References:

Storage: Store at -20°C

Solubility & Usage Info:

water to 20 mM DMSO to 40 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.

Wei et al (1996) Identification of competitive antagonists of the rod photoreceptor cGMP-gated cation channel: beta-phenyl-1, N²-ethenosubstituted cGMP analogues as probes of the cGMP-binding site. Biochemistry **35** 16815. PMID: 8988020.

Qi et al (2007) Protein kinase G regulates the basal tension and plays a major role in nitrovasodilator-induced relaxation of porcine coronary veins. Br.J.Pharmacol. **152** 1060. PMID: 17891157.

Valtcheva et al (2008) The commonly used cGMP-dependent protein kinase type I (cGKI) inhibitor Rp-8-Br-PET-cGMPS can activate cGKI in vitro and in intact cells. J.Biol.Chem. 284 556. PMID: 19008225.

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