

CG 4305 Biochemical | CG4305 biochemical

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CATALOG #
AAA227171

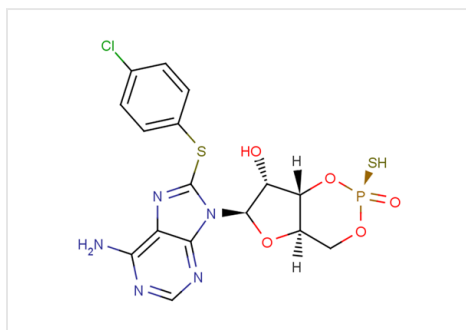
PRODUCT SYNONYMS

CG 4305; CG4305 biochemical

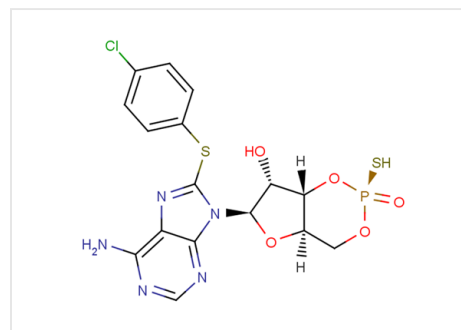
PRODUCT SPECIFICATIONS

Purity/Purification	98%
Solubility	DMSO: 10 mg/mL
	DMF: 5 mg/mL
	DMSO:PBS (pH 7.2)(1:10): 0.1 mg/mL
	Ethanol: 3mg/mL <1mg/ml refers to the product slightly soluble or insoluble
Preparation and Storage	Powder: -20 degree C for 3 years In solvent: -80 degree C for 2 years

IMAGES



Structure
Sp-8-CPT-cAMPS, CAS 129693-13-6



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ADDITIONAL INFORMATION

Related Product Information for CG4305 biochemical	Prostacyclin (PGI ₂) is a cyclooxygenase metabolite with antithrombotic properties found in vascular endothelial cells. The half-life is short both in vivo and in vitro, ranging from 30 seconds to a few minutes. CG 4305 is a stable carbacyclic analog of PGI ₂ that inhibits ADP-induced platelet aggregation 25% at a concentration of 50 nM. Doses of 10 mg/kg (oral) or 1 mg/kg (intraduodenal) have been shown to prevent rabbit carotid artery thrombosis.
References	1. Dostmann WR, et, al. Probing the cyclic nucleotide binding sites of cAMP-dependent protein kinases I and II with analogs of adenosine 3',5'-cyclic phosphorothioates. J Biol Chem. 1990 Jun 25;265(18):10484-91. 2. Boese M, et, al. Effect of cyclic GMP-dependent vasodilators on the expression of inducible nitric oxide synthase in vascular smooth muscle cells: role of cyclic AMP. Br J Pharmacol. 1996 Oct;119(4):707-15. 3. Spicuzza L, et, al. Evidence that the anti-spasmogenic effect of the beta-adrenoceptor agonist, isoprenaline, on guinea-pig trachealis is not mediated by cyclic AMP-dependent protein kinase. Br J Pharmacol. 2001 Aug;133(8):1201-12.

NCBI AND UNIPROT INFORMATION

Molecular Weight	487.88
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For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://www.aaabiotech.com/cg4305-biochemical/cg-4305/227171>