Sp-8-pCPT-2′-OMe-cAMPS

PDE-resistant, membrane-permeant Epac agonist

Analog of the natural signal molecule cyclic AMP in which the hydrogen in position 8 of the heterocyclic nucleobase is replaced by the lipophilic 4-chlorophenylthio moiety, and the ribose 2'-hydroxyl group has been methylated. In addition, the axial one of the two exocyclic oxygen atoms in the cyclic phosphate moiety is modified by sulfur. The suffix "p" indicates that the R/S nomenclature refers to phosphorus atom.

Hydrolysis-resistant form of 8-pCPT-2'-O-Me-cAMP (Prod. no. BLG-C041), a specific activator of the exchange protein directly activated by cyclic AMP (Epac) or cAMP-GEF, respectively. The compound does not activate protein kinase A, has high lipophilicity and membrane permeability and is not metabolized by phosphodiesterases.

BLG-C052-05 (5 x 1 µmol pack size) is not sold in the U.S. or Canada. Please contact us for available options.

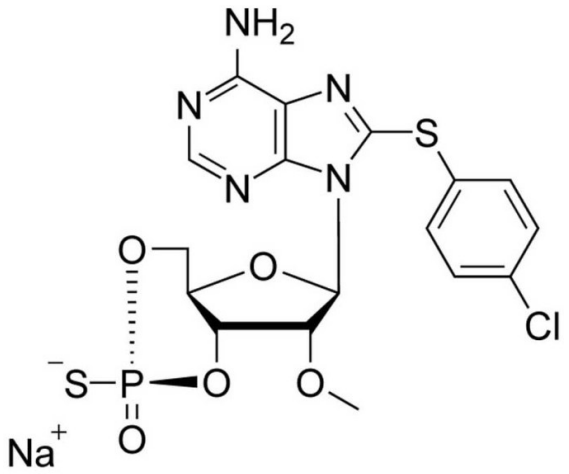
Ordering Information

Order Online »

BLG-C052-01	1µmol
BLG-C052-05	5x1µmol

Manuals, SDS & CofA

View Online »


NH2
N
N
N
N
S
Cl
O
O
S
P
O
O
O
Na+

Handling & Storage

Long Term Storage	-20°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	8-(4-Chlorophenylthio)-2′-O-methyl-cAMPS, Sp isomer, sodium salt
CAS	634208-37-0
Couple Type	Activator, Modified nucleotides
Formula	$C_{17}H_{16}ClN_5O_5PS_2$. Na
MW	523.9
Purity	> 98% HPLC
Quantity	1µmol=~0.5mg
Reconstitution	5-10mM stock solutions in water can be obtained. Please rinse tube walls carefully and preferably use ultrasonic or vortex to achieve total and uniform mixing.
Solubility	Limited solubility in water.
Technical Info / Product Notes	For the Original Manufacturer's data sheet please click here.

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