8-pCPT-2′-O-Me-cAMP

Specific, membrane-permeant Epac activator

Analogue 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. In addition, the ribose 2'- hydroxy group has been methylated.
Potent stimulator of exchange factors directly activated by cAMP (Epac or cAMP-GEF), a newly discovered receptor for cyclic AMP.
Since a free 2'-ribose hydroxyl group in cyclic AMP is essential for stimulation of cAMP-dependent protein kinase (PKA), the methylated structure of 8-pCPT-2'-O-Me-cAMP is an extremely poor PKA activator and allows for specific discrimination between both signalling pathways.
Its high lipophilicity (> dibutyryl-cAMP), allows for good membrane permeability in most biosystems, and its increased resistance towards phosphodiesterases prevents from rapid hydrolysis.

BLG-C041-25 (5 x 5 µmol pack size) is not sold in the U.S. or Canada. Please contact us for available options.

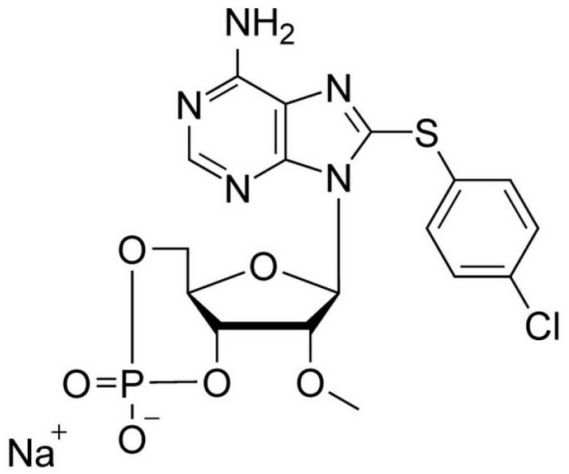
Ordering Information

Order Online »

BLG-C041-05	5µmol
BLG-C041-25	5x5µmol

Manuals, SDS & CofA

View Online »


NH2
N
N
N
N
S
Cl
O
O
O=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-methyladenosine-3′,5′-cyclic monophosphate . sodium salt
Appearance	Lyophilized or crystallized sodium salt.
CAS	634207-53-7
Couple Type	Activator, Modified nucleotides
Formula	$C_{17}H_{16}ClN_5O_6PS$. Na
MW	507.8
Purity	>98% HPLC
Quantity	5µmol=~2.5mg
Reconstitution	Soluble (at least 200mM) in water or buffers. Please rinse tube walls carefully and preferably use ultrasonic or vortex to achieve total and uniform mixing.
Solubility	Soluble in water or buffer.
Technical Info / Product Notes	For the Original Manufacturer's data sheet please click here.

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