8-pMeOPT-2′-O-Me-cAMP

Potent Epac agonist

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-methoxyphenylthio 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-pMeOPT-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-M034-25 (5 x 5 µmol pack size) is not sold in the U.S. or Canada. Please contact us for available options.

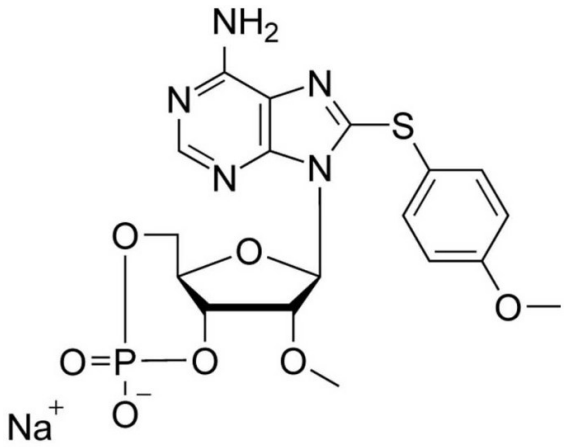
Ordering Information

Order Online »

BLG-M034-05	5µmol
BLG-M034-25	5x5µmol

Manuals, SDS & CofA

View Online »

Handling & Storage

Long Term Storage	-20°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	8-(4-Methoxyphenylthio)-2′-O-methyladenosine-3′,5′-cyclic monophosphate . sodium salt
Appearance	Lyophilized or crystallized sodium salt.
CAS	612513-16-3
Couple Type	Modified nucleotides
Formula	$C_{18}H_{19}N_5O_7PS$. Na
MW	503.4
Purity	> 98% HPLC
Quantity	5µmol=~2.5mg
Solubility	8-pMeOPT-2′-O-Me-cAMP has only limited solubility in water or buffers. Please rinse tube walls carefully and preferably use ultrasonic or vortex to achieve total and uniform mixing.
Technical Info / Product Notes	For the Original Manufacturer's data sheet please click here.

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