2′-O-Me-cAMP

Polar Epac agonist

Analogue of the natural signal molecule cyclic AMP in which the 2’-hydroxyl group of the ribose has been methylated.
Since a free 2’-ribose hydroxyl group in cyclic AMP is essential for stimulation of cAMP-dependent protein kinase (PKA), the methylated analog 2’-OMe-cAMP does not activate PKA, whereas it is a selective stimulator of the exchange factors directly activated by cAMP(Epac or cAMP-GEF).
2’-O-Me-cAMP is also suitable for testing the 2’-position of the cAMP skeleton in receptor mapping studies. In comparison with potent Epac-activating analogues such as 8-pCPT-2'-O-Me-cAMP (Prod. No. BLG-C041) or 8-pMeOPT-2'-OMe-cAMP (Prod. No. BLG-M034) 2'-O-Me-cAMP shows considerably reduced potency as well as lipophilicity which makes it much less membrane-permeant. Furthermore, it is metabolized rapidly by cyclic nucleotide-dependent phosphodiesterases. For these reasons, 2-O-Me-cAMP is not recommended for investigating the role of Epac in cell culture experiments.

BLG-M050-25 (5 x 5 µmol pack size) is not sold in the U.S. or Canada. Please contact us for available options.

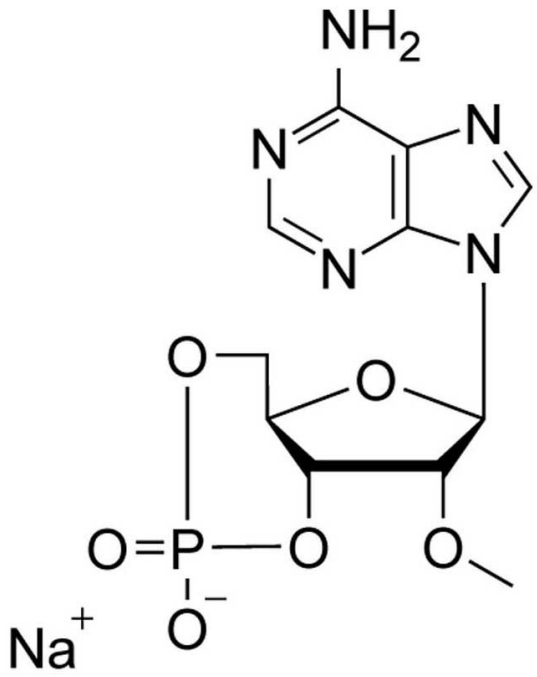
Ordering Information

Order Online »

BLG-M050-25	5x5µmol

Manuals, SDS & CofA

View Online »


NH2
N
N
N
N
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	2′-O-Methyladenosine-3′,5′-cyclic monophosphate . sodium salt
Appearance	Lyophilized or crystallized sodium salt.
CAS	40269-29-2
Couple Type	Modified nucleotides
Formula	$C_{11}H_{13}N_5O_6P$. Na
MW	365.2
Purity	> 98% HPLC
Quantity	5µmol=~1.8mg
Reconstitution	Soluble in water or in buffers. Please rinse tube walls carefully and preferably use ultrasonic or vortex to achieve total and uniform mixing.
Solubility	Soluble in water or in buffers.
Technical Info / Product Notes	For the Original Manufacturer's data sheet please click here.

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