5′-O-MB-2′,3′-cAMP

Analogue of 2',3'-cAMP

5’-O-MB-2’,3’-cAMP is a membrane permeable analogue and prodrug / precursor of 2',3'-cAMP (BIOLOG Cat. No. A 307) and was used to identify pathways regulated by 2',3'- cNMPs, including flagellar motility and biofilm formation in E. coli. After entering a target cell by passive diffusion, the butyrate group is split off by endogenous esterases to release the parent compound 2',3'-cAMP. Caution: Also extracellular esterases activities were reported in literature and premature release of 2',3'-cAMP strongly reduces membrane permeability. 2',3'-cAMP is a positional isomer of the natural second messenger 3',5'-cAMP (BIOLOG Cat. No. A 001) and was found to be produced by organ systems such as rat and mouse kidney and mouse brain from RNA degradation. It was also recently reported to promote the formation of stress granules in *Arabidopsis thaliana*.

BLG-M176-25 (5 x 5 µmol pack size) is not sold in the U.S. or Canada. Please contact us for available options.

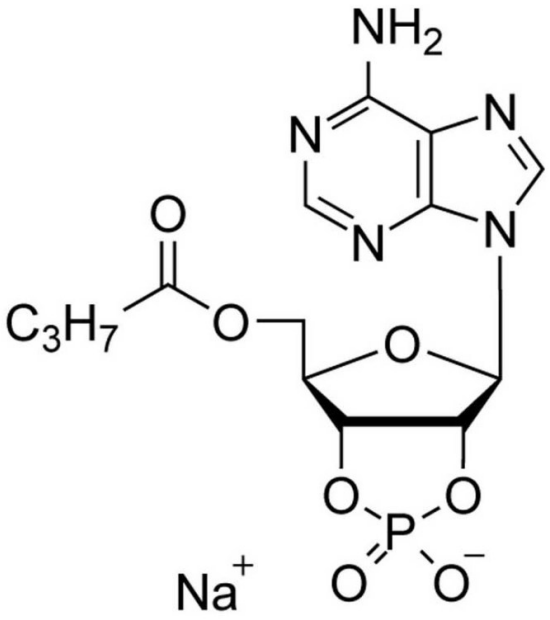
Ordering Information

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BLG-M176-05	5µmol
BLG-M176-25	5x5µmol

Manuals, SDS & CofA

View Online »


NH2
N
N
N
N
O
C3H7
O
O
O
O
P
O
O
Na+

Handling & Storage

Long Term Storage -20°C

Shipping Ambient Temperature

Regulatory Status RUO - Research Use Only

Product Details

Alternative Name 5′-O-Monobutyryladenosine-2′,3′-cyclic monophosphate . sodium salt

Formula $C_{14}H_{17}N_5O_7P$. Na

MW 421.3 (free acid)

Purity > 97% HPLC

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