Rp-8-Cl-cAMPS

Membrane-permeant analogue of the cyclic AMP antagonist Rp-cAMPS

Rp-8-Cl-cAMPS is a novel combination of the well accepted protein kinase inhibitor Rp-cAMPS with 8-chloro cyclic AMP, resulting in a membrane permeant cyclic AMP antagonist which is not metabolized by mammalian cyclic nucleotide phosphodiesterases.
Rp-8-Cl-cAMPS is about 1.3 times more lipophilic compared to 8-Cl-cAMP, and 1.7 times and 2.2 times more compared to Rp-cAMPS and cAMP respectively.
In contrast to common ATP-site inhibitors or to its parent compound Rp-cAMPS, Rp-8-Cl-cAMPS discriminates between both isozymes of protein kinase A, prefering type I[13] and thus provides additional selectivity. By occupying cAMP binding sites Rp-8-Cl-cAMPS prevents the kinase holoenzyme from dissociation and thus from activation.
Due to this working principle preincubation of the inhibitor prior to the activation step is necessary for optimal results.

BLG-C003-25 (5 x 5 µmol pack size) is not sold in the U.S. or Canada. Please contact us for available options.

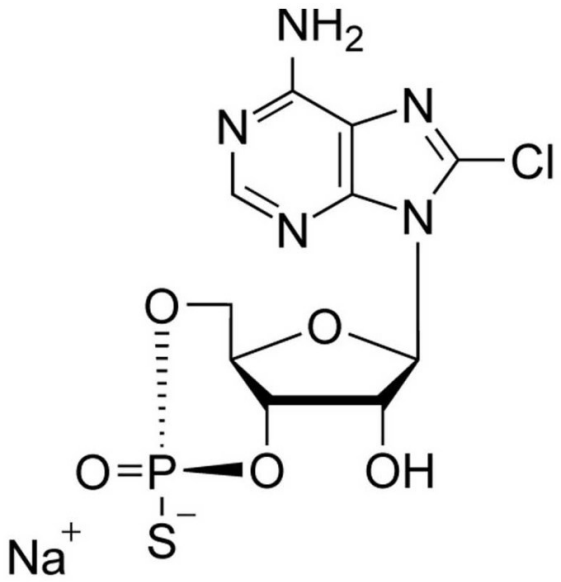
Ordering Information

Order Online »

BLG-C003-05	5µmol
BLG-C003-25	5x5µmol

Manuals, SDS & CofA

View Online »


NH2
N
N
Cl
N
N
O
O
O=P
O
OH
S−
Na+

Handling & Storage

Long Term Storage	-20°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	8-Chloroadenosine-3′,5′-cyclic monophosphorothioate . sodium salt, Rp-isomer
Appearance	Lyophilized or crystallized sodium salt.
CAS	142754-27-6
Couple Type	Modified nucleotides
Formula	$C_{10}H_{10}ClN_5O_5PS$. Na
MW	401.7
Purity	> 99% HPLC
Quantity	5µmol=~2mg
Reconstitution	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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