8-(4-Chlorophenylthio)-2′-O-methyladenosine 3′,5′-cyclic Monophosphate, sodium salt

Specific, potent and membrane permeant activator of the Epac cAMP receptor. Activates Epac1 and Epac2, the guanine nucleotide-exchange factors (GEFs) for the small GTPases Rap1 and Rap2. Does not activate protein kinase A (PKA), neither *in vitro* nor *in vivo* and is therefore a valuable tool to specifically discriminate between PKA- and Epac-mediated effects. Since a free 2'-ribose hydroxyl group in cyclic AMP is essential for stimulation of PKA, the methylated structure of 8-CPT-2'-O-Me-cAMP is an extremely poor PKA activator. Its high lipophilicity allows for good membrane permeability in most biosystems and its increased resistance towards phosphodiesterases prevents rapid hydrolysis.

cAMP receptor activator

Citations: 3 View Online »

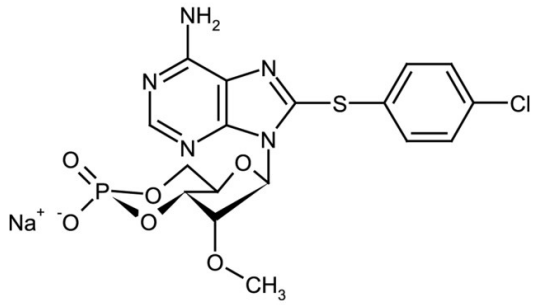
Ordering Information

Order Online »

ALX-480-093-M001	1mg
ALX-480-093-M005	5mg

Manuals, SDS & CofA

View Online »

Handling & Storage

Use/Stability	As indicated on product label or CoA when stored as recommended.
Handling	Protect from light. Hygroscopic.
Long Term Storage	-20°C
Shipping	Ambient Temperature

Regulatory Status

RUO - Research Use Only

Product Details

Alternative Name	8-CPT-2′-O-Me-cAMP . Na
Appearance	White to off-white crystalline powder.
CAS	510774-50-2
Couple Target	cAMP receptor, GEF
Couple Type	Activator
Formula	$C_{17}H_{16}ClN_5O_6PS$. Na
Identity	Determined by ESI-MS and UV.
MW	484.8 . 23.0
Purity	≥98% (HPLC)
Purity Detail	Product is not sterile.
Solubility	Soluble in water, aqueous buffers, DMSO, dimethyl formamide or methanol.

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