

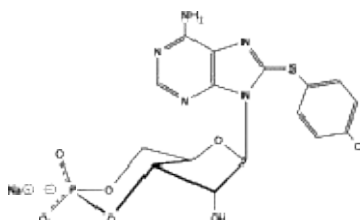
8-CPT-cAMP

1. Description

8-CPT-cAMP is a lipophilic activator of both cAMP- and cGMP- dependent protein kinase. It has a higher activation potential compared to cAMP and excellent cell membrane permeability, improved phosphodiesterase stability and high site selectivity preferring site B of cAMP-dependent protein kinase type II. This analogue is not selective but activates cGMP-dependent protein kinase as well. In addition, it increases basal cGMP level by inhibition of PDE V.

2. Product Information

8CPT-cAMP :	order-no. PKE-8CPCA-050
Chemical name.:	8-(4-Chlorophenylthio) adenosine-3',5'-cyclic monophosphate
Formula:	C ₁₆ H ₁₄ ClN ₅ O ₆ PS . Na
Molecular Weight:	470.8 . 23.0 g/mol
Long Term Storage:	-20°C
Purity:	>98%
Appearance:	white solid
Chemical Structure:	



3. Product specific literature references:

- Peters DJ, Bominaar AA, Snaar-Jagalska BE, Brandt R, Van Haastert PJ, Ceccarelli A, Williams JG, Schaap P (1991) "Selective induction of gene expression and second-messenger accumulation in *Dictyostelium discoideum* by the partial chemotactic antagonist 8-*p*-chlorophenylthioadenosine 3',5'-cyclic monophosphate" *Proc. Natl. Acad. Sci. U S A.* 88(20):9219-23.
- Sandnes D, Jacobsen FW, Refsnes M, Christoffersen T (1996) "8-bromo-cAMP and 8-CPT-cAMP increase the density of beta-adrenoceptors in hepatocytes by a mechanism not mimicking the effect of cAMP" *Pharmacol. Toxicol.* 79(1):15-22
- Parvathenani LK, Buescher ES, Chacon-Cruz E, Beebe SJ (1998) "Type I cAMP-dependent protein kinase delays apoptosis in human neutrophils at a site upstream of caspase-3" *J. Biol. Chem.* 273(12):6736-43