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Product Information

8-MA-cAMP

Product Number **P 0747**
Storage Temperature -70°C

CAS RN: 33823-18-6 (Free acid)

Synonym: 8- Methylaminoadenosine- 3', 5'- cyclic monophosphate, sodium salt

Molecular Formula: $\text{C}_{11}\text{H}_{14}\text{N}_6\text{O}_6\text{PNa}$
Molecular Weight: 380.23

Product Description

Site selective cyclic AMP-dependent protein kinase (cAK; PKA) activator with comparable affinity for the B sites of both cAK type I and type II. It acts as a priming analog which acts synergistically with analogs showing site A preference. For example, together with 8-piperidino-cAMP, selective stimulation of cAK type I can be achieved.¹

Precautions and Disclaimer

This product is for R&D use only, not for drug, household, or other uses. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.

Preparation Instructions

8-MA-cAMP is readily soluble in water.

Storage/Stability

Store at -70°C

References

1. Skalhegg, B.S., et al. Cyclic AMP-dependent protein kinase type I mediates the inhibitory effects of 3',5'-cyclic adenosine monophosphate on cell replication in human T lymphocytes. *J. Biol. Chem.*, **267**, 15707-15714 (1992).
2. Levy, F. O., et al., Cyclic AMP-dependent protein kinase (cAK) in human B cells: co-localization of type I cAK (RI alpha 2 C2) with the antigen receptor during anti-immunoglobulin-induced B cell activation. *Eur. J. Immunol.*, **26**, 1290-1296 (1996).
3. Skalhegg, B.S., et al., Location of cAMP-dependent protein kinase type I with the TCR-CD3 complex. *Science.*, **263**, 84-87 (1994)

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