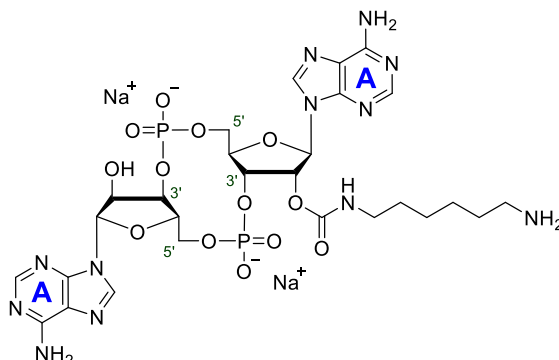


Technical Information about 2'-AHC-c-diAMP

Update: April 16, 2019 нн



Abbreviation: 2'-AHC-c-diAMP

Formula	CAS No.	Molecular Weight	UV	BIOLOG Cat. No.
C ₂₇ H ₃₈ N ₁₂ O ₁₃ P ₂ (free acid)	[pending]	800.6 (free acid)	λ _{max} 259 nm / ε 27000 / pH 7	A 182

Name: 2'- O- (6- Aminohexylcarbamoyl)- cyclic diadenosine monophosphate

Description: 2'-AHC-c-diAMP is an analogue of the bacterial second messenger c-diAMP (BIOLOG Cat. No. C 088) in which a hexyl spacer with a terminal amino group has been attached to one of the two ribose 2'-hydroxy groups by a carbamate bond.

Properties: Precursor for modification with fluorophores and other markers. Also suitable as a ligand for immobilization to yield affinity gels. 2'-AHC-c-diAMP is also offered as a ligand immobilized on agarose (2'-AHC-c-diAMP-Agarose, Cat. No. A 183).

Specification: Crystallized or lyophilized sodium salt. Please keep in mind that equal concentrations of the compound may look different in volume due to sensitivity of the lyophilized form to humidity. The compound can even contract to small volume droplets. Normally the product is located in the conical bottom of the tube. Micromolar quantities are determined by UV at λ_{max}.

Purity: Typical analysis is better than 95% (HPLC / UV / 259 nm). The product is not sterile and has not been tested for endotoxins.

Solubility: 2'-AHC-c-diAMP is soluble in water (≥ 1 mM, limits have not been determined). Please rinse tube walls carefully and preferably use ultrasonic or vortex to achieve total and uniform mixing. When opening the tube please make sure that no substance is lost within the cap.

Stability and Storage: 2'-AHC-c-diAMP has sufficient stability at room temperature and does not need special care during handling or shipment. Nevertheless, we recommend that the compound should be stored in the freezer, for longer storage periods preferably in freeze-dried form.

Toxicity and Safety: Please keep in mind, that the *in vivo* properties of this compound are not sufficiently characterized up to now. Avoid skin contact or ingestion and allow only trained personnel to handle the product. Our products are designed, developed and sold for research purposes only! They are intended for *in vitro* and nonhuman *in vivo* laboratory applications. Any other use requires approval of health authorities.

Not for drug, household or related uses!

References for 2'-AHC-c-diAMP: 2'-AHC-c-diAMP is a new product which has been prepared by BIOLOG Life Science Institute for the first time. There are no corresponding references available at present.

Selected References for 2'-AHC-c-diAMP-Agarose (Cat. No. A 183):

Bai, Y.; Yang, J.; Zarrella, T.M.; Zhang, Y.; Metzger, D.W.; Bai, G., *J. Bacteriol.*, **196**, 614 - 623 (2014): "Cyclic di-AMP Impairs Potassium Uptake Mediated by a c-di-AMP Binding Protein in *Streptococcus pneumoniae*"