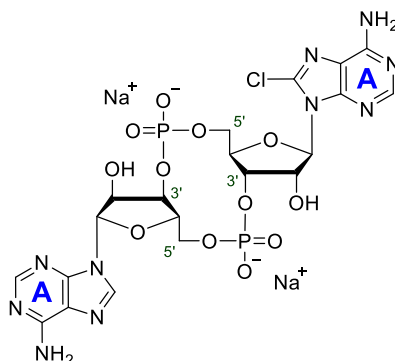


Technical Information about 8-Cl-c-diAMP

Analogue of the bacterial second messenger c-diAMP

Update: March 17, 2021 AI



Abbreviation: **8-Cl-c-diAMP**

Formula	CAS No.	Molecular Weight	UV	BIOLOG Cat. No.
C ₂₀ H ₂₃ ClN ₁₀ O ₁₂ P ₂ (free acid)	[2222132-22-9] (free acid)	692.9 (free acid)	λ _{max} 262 nm / ε 28600 / pH 7	C 146

Name: 8- Chloro- cyclic diadenosine monophosphate

Description: In 8-Cl-c-diAMP two 5'-AMP units are connected to form a cyclic structure. In addition, the hydrogen in position 8 of one of the two heterocyclic nucleobases is replaced by a chlorine atom.

Properties: 8-Cl-c-diAMP is a mono-functionalized analogue of the bacterial second messenger c-diAMP (Cat. No. C 088). It may be useful for binding studies and as precursor for further modifications with spacers or labels.

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 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 / 262 nm). The product is not sterile and has not been tested for endotoxins.

Solubility: 8-Cl-c-diAMP is soluble in water (≥ 14 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: 8-Cl-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 contact with eyes and skin 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!

Selected References for 8-Cl-c-diAMP: 8-Cl-c-diAMP is a new product and there are currently no references available.