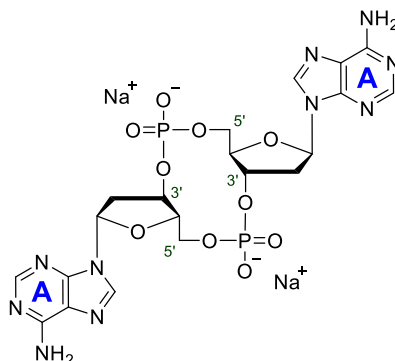


Technical Information about 2',2''-Di-c-didAMP

Analogue of the bacterial second messenger c-diAMP

Update: August 08, 2019 HU



Abbreviation: 2',2''-Di-c-didAMP

Formula	CAS No.	Molecular Weight	UV	BIOLOG Cat. No.
C ₂₀ H ₂₄ N ₁₀ O ₁₀ P ₂ (free acid)	[79192-34-0]	626.4 (free acid)	λ _{max} 259 nm / ε 27000 / pH 7	D 140

Name: 2'-, 2''- Dideoxy- cyclic diadenosine monophosphate (2',2''-Di-c-didAMP / c-di-dAMP / c-(dApdAp))

Description: 2',2''-Di-c-didAMP is an analogue of the bacterial second messenger c-diAMP (Cat. No. C 088) lacking both ribose 2'-hydroxy groups.

Properties: 2',2''-Di-c-didAMP may be useful in studies on ligand-receptor interactions.

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 / 259 nm). The product is not sterile and has not been tested for endotoxins.

Solubility: 2',2''-Di-c-didAMP is soluble in water (≥ 9 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',2''-Di-c-didAMP 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!

Selected References for 2',2''-Di-c-didAMP:

Blommers, M.J.; Haasnoot, C.A.; Walters, J.A.; van der Marel, G.A.; van Boom, J.H.; Hilbers, C.W., *Biochemistry*, **27**, 8361 - 8369 (1988): "Solution Structure of the 3'-5' Cyclic Dinucleotide d(pApA). A Combined NMR, UV Melting, and Molecular Mechanics Study"