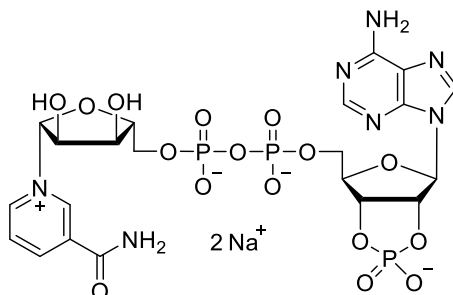


Technical Information about NADcP⁺

Update: May 20, 2019 HU



Abbreviation: NADcP⁺ / 2',3'-cyclic NADP⁺

Formula	CAS No.	Molecular Weight	UV	BIOLOG Cat. No.
C ₂₁ H ₂₆ N ₇ O ₁₆ P ₃ (free acid)	[100929-77-9]	725.4 (free acid)	λ _{max} 259 nm / ε 18000 / pH 7	N 050

Name: β- Nicotinamide adenine dinucleotide- 2', 3'- cyclic monophosphate

Description: NADcP⁺ is an analogue of β-nicotinamide adenine dinucleotide phosphate (NADP⁺) in which the 2'-phosphate is cyclized to 2',3'-cyclic phosphate.

Properties: NADcP⁺ is a substrate for 2',3'-cyclic nucleotide 3'-phosphodiesterase.

Specification: Lyophilized or crystallized sodium salt. Other salt forms are available upon request. Equal concentrations of NADcP⁺ can appear very 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: NADcP⁺ is soluble to at least 90 mM in water, 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: NADcP⁺ has limited stability at ambient temperature. We recommend that the compound should be stored in the freezer (- 20° Celsius necessary, - 80° recommended), 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 NADcP⁺:

Müller, H.W.; Clapshaw, P.A.; Seifert, W., *FEBS Lett.*, **131**, 37 – 40 (1981): " Two Molecular Forms of the Isolated Brain Enzyme 2', 3'-cyclic Nucleotide 3'-phosphodiesterase"

Sogin, D.C., *J. Neurochem.*, **27**, 1333 - 1337 (1976): "2',3'-Cyclic NADP as a Substrate for 2',3'-cyclic Nucleotide 3'-Phosphohydrolase"