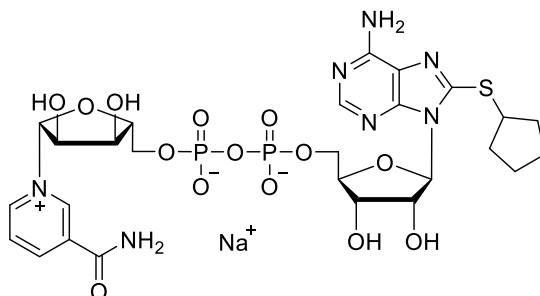


Technical Information about 8-cPeT-NAD⁺

Update: May 11, 2023 AI



Abbreviation: 8-cPeT-NAD⁺

Formula	CAS No.	Molecular Weight	UV	BIOLOG Cat. No.
C ₂₆ H ₃₅ N ₇ O ₁₄ P ₂ S (free acid)	[2022926-10-7]	763.6 (free acid)	λ _{max} 281 nm / ε 23200 / pH 7	N 037

Name: β- Nicotinamide- 8- cyclopentylthioadenine dinucleotide, sodium salt

Description: 8-cPeT-NAD⁺ is an analogue of the natural signal molecule β-NAD⁺, in which the hydrogen in position 8 of the heterocyclic nucleobase is replaced by a cyclopentylthio moiety.

Properties: 8-cPeT-NAD⁺ is an analogue of β-NAD⁺ that can be useful for screening of β-NAD⁺ receptor proteins.

Specification: Lyophilized or crystallized sodium salt. Other salt forms are available upon request. Equal concentrations of 8-cPeT-NAD⁺ 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 / 281 nm). The product is not sterile and has not been tested for endotoxins.

Solubility: 8-cPeT-NAD⁺ is soluble in water (≥ 10 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-cPeT-NAD⁺ 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: Since β-NAD⁺ has multiple tasks in every organism, it is very likely that its analogues will interfere with many cell regulation processes *in vivo*. However, due to the rather small quantities to work with, no health hazards have been reported. Nevertheless, 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 8-cPeT-NAD⁺:

Gibson, B.A.; Zhang, Y.; Jiang, H.; Hussey, K.M.; Shrimp, J.H.; Lin, H.; Schwede, F.; Yu, Y.; Kraus, W.L., *Science*, **353**, 45 - 50 (2016): "Chemical Genetic Discovery of PARP Targets Reveals a Role for PARP-1 in Transcription Elongation"