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Produktinformation

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- Diagnostik & molekulare Diagnostik
- Laborgeräte & Service

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Lieferung & Zahlungsart

siehe unsere Liefer- und Versandbedingungen

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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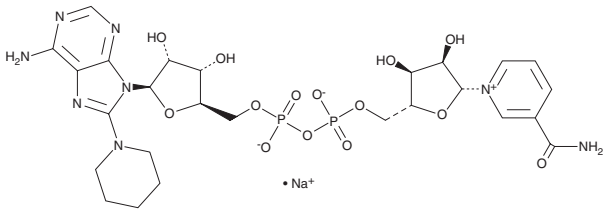
PRODUCT INFORMATION

8-piperidino NAD$^+$ (sodium salt)

Item No. 38487

Formal Name: 8-(1-piperidinyl)-adenosine 5′-(trihydrogen diphosphate), P′→5′-ester with 3-(aminocarbonyl)-1-β-D-ribofuranosylpyridinium, inner salt, monosodium
Synonyms: 8-piperidino Nicotinamide adenine dinucleotide, β-Nicotinamide-8-piperidinoadenine dinucleotide, 8-PIP NAD
MF: $C_{26}H_{35}N_8O_{14}P_2 \bullet Na$
FW: 768.5
Purity: ≥95%
Supplied as: A solid
Storage: -80°C
Stability: ≥2 years



Information represents the product specifications. Batch specific analytical results are provided on each certificate of analysis.

Laboratory Procedures

8-piperidino NAD$^+$ (sodium salt) is supplied as a solid. A stock solution may be made by dissolving the 8-piperidino NAD$^+$ (sodium salt) in water. We do not recommend storing the aqueous solution for more than one day.

Description

8-piperidino NAD$^+$ is a derivative of the signaling molecule and enzyme cofactor NAD$^+$ (Item No. 16077).[1] It has been used in the determination of poly(ADP-ribose) polymerase (PARP) target proteins. 8-piperidino NAD$^+$ is also a synthetic intermediate in the synthesis of cyclic ADP-ribose (cADPR) derivatives.[2]

References

1. Kraus, W.L., Gibson, B.A., Schwede, F., *et al.* NAD analogs and methods of using said NAD analogs in determining ribosylation of proteins with PARP mutants. *The Board of Regents of the University of Texas System, Biolog Life Science Institute Forschungslabor und Biochemica-Vertrieb GmbH, Cornell University* **US20160299141A1** (2016).
2. Moreau, C., Ashamu, G.A., Bailey, V., *et al.* Synthesis of cyclic adenosine 5'-diphosphate ribose analogues: A C2' *endo/syn* "southern" ribose conformation underlies activity at the sea urchin cADPR receptor. *Org. Biomol. Chem.* **9(1)**, 278-290 (2011).

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