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Produktinformation



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Lieferung & Zahlungsart

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Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Product Information

NAD-Hexylamine, Lithium Salt

Catalog Number: 10064

Unit Size: 1 mg

Storage and Handling

Store at -20°C desiccated. Product is stable for at least 12 months from date of receipt when stored as recommended.

Stock solutions may be prepared in water. Solutions may be stored at -20°C, for up to 6 months.

Molecular Information: C₂₉H₄₂N₉O₁₅LiP₂

CAS number: 102029-94-7

Molecular Weight: 826

Color and Form: White solid

Solubility: Soluble in water

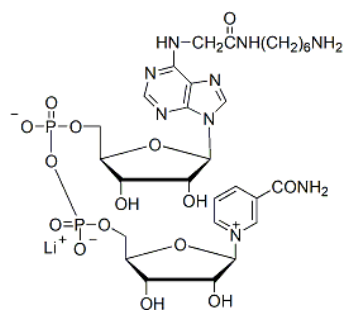


Figure 1. NAD-Hexylamine (6-((6-Aminoethyl)carbamoylmethyl)nicotinamide adenine dinucleotide), lithium salt.

Product Description

Nicotinamide adenine dinucleotide (NAD) is a ubiquitous electron carrier and enzyme cofactor that is central to cellular metabolism. NAD exists as a coenzyme redox pair with an oxidized NAD⁺ form and a reduced NADH form. A primary function of NAD is the transfer of electrons that facilitate dehydrogenase reactions in vital metabolic pathways. In addition to redox reactions, NAD also participates in ADP-ribose transfer reactions as a donor of ADP-ribose units for enzymes such as ADP-ribosyltransferases and ADP-ribosyl cyclases.

NAD-Hexylamine (N6-((6-aminoethyl)carbamoylmethyl)nicotinamide adenine dinucleotide) is a stable NAD⁺ analog with a hexyl spacer carrying an amino group suitable for binding to an affinity matrix such as Sepharose®. After immobilization to a matrix, the NAD cofactor may be used for affinity chromatography, or as a functioning coenzyme to study enzyme mechanisms or topography (1). NAD-Hexylamine may also be used for fabricating biosensors utilizing NAD-based redox enzymes.

References

1) Eur. J. Biochem. 40, 187(1973).

Related Products

Catalog number	Product
10024	Chromogenic Beta-Galactosidase Substrate Sampler
10025	Chromogenic Beta-Glucuronidase Substrate Sampler
10022	Chromogeni Phosphatase Substrate Sampler
10061	10-Acetyl-3,7-dihydroxyphenoxazine (Amplex® Red)
10063	CTC (5-Cyano-2,3-ditoly tetrazolium chloride)
10054	Resazurin (alamarBlue™), Sodium Salt
10062	Resorufin (High Purity)
30006	MTT Cell Viability Assay Kit
30007	XTT Cell Viability Assay Kit
70070	MitoView™ 405
70054	MitoView™ Green
70055	MitoView™ 633
70075	MitoView™ 650
70068	MitoView™ 720
70082	MitoView™ Fix 640

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