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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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NAD Synthetase

Cat. No.:	HY-E70410
CAS No.:	9032-69-3
Target:	Endogenous Metabolite
Pathway:	Metabolic Enzyme/Protease
Storage:	Please store the product under the recommended conditions in the Certificate of Analysis.

NAD Synthetase

BIOLOGICAL ACTIVITY

Description

NAD synthetase is responsible for the final step in the synthesis of nicotinamide adenine dinucleotide (NAD). The K_m values for NAD, ATP, and ammonia of NAD synthetase from Escherichia coli are 200 μM, 11 μM, and 0.65 μM, respectively, while the K_m values for NAD, ATP, and ammonia of NAD synthetase from yeast are 170 μM, 190 μM, and 64 μM, respectively. NAD synthetase can be used for enzymatic assays to determine ATP, ammonia, urea, or creatinine, and is also suitable for enzymatic cycling methods. Additionally, NAD synthetase holds potential for research into metabolic diseases, cancer, aging, and neurodegenerative diseases[1][2].

REFERENCES

[1]. Zalkin H. NAD synthetase. Methods Enzymol. 1985;113:297-302.

[2]. Xie N, et al. NAD+ metabolism: pathophysiologic mechanisms and therapeutic potential. Signal Transduct Target Ther. 2020 Oct 7;5(1):227.

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