NAD sodium

Cat. No.: HY-B0445A

CAS No.: 20111-18-6

Molecular Formula: $C_{21}H_{26}N_7NaO_{14}P_2$

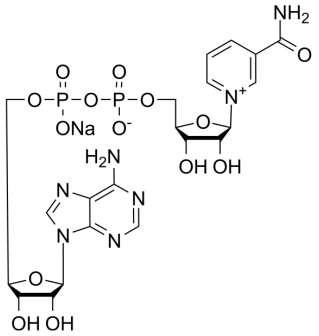
Molecular Weight: 685.41

Target: Endogenous Metabolite

Pathway: Metabolic Enzyme/Protease

Storage: -20°C, sealed storage, away from moisture

* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)



SOLVENT & SOLUBILITY

In Vitro

H_2O : 125 mg/mL (182.37 mM; Need ultrasonic)

DMSO : 25 mg/mL (36.47 mM; ultrasonic and warming and heat to 60°C)

Preparing Stock Solutions

Solvent / Mass / Concentration	1 mg	5 mg	10 mg
1 mM	1.4590 mL	7.2949 mL	14.5898 mL
5 mM	0.2918 mL	1.4590 mL	2.9180 mL
10 mM	0.1459 mL	0.7295 mL	1.4590 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

NAD (β-Nicotinamide Adenine Dinucleotide) sodium is an analogue of NAD. NAD sodium can be reduced to β-nicotinamide adenine dinucleotide (NADH) during coupling with reactions which oxidize organic substrates. NAD sodium can be converted to β-nicotinamide adenine dinucleotide (NADH) and passes to the inside of mitochondria that indirectly generates ATP[1].

REFERENCES

[1]. Bartlett P.N, et, al. The oxidation of β-nicotinamide adenine dinucleotide (NADH) at poly(aniline)-coated electrodes: Part II. Kinetics of reaction at poly(aniline)–poly(styrenesulfonate) composites. 2022 May 22;486(1):23-31.

Caution: Product has not been fully validated for medical applications. For research use only.

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