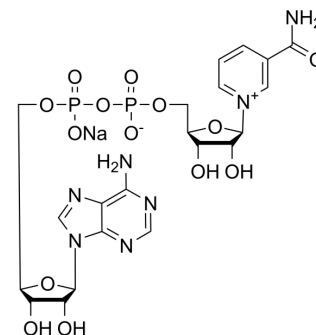


NAD sodium

Cat. No.:	HY-B0445A
CAS No.:	20111-18-6
Molecular Formula:	C ₂₁ H ₂₆ N ₇ NaO 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

H₂O : 125 mg/mL (182.37 mM; Need ultrasonic)
DMSO : 25 mg/mL (36.47 mM; ultrasonic and warming and heat to 60°C)

	Solvent Concentration	Mass	1 mg	5 mg	10 mg
		Concentration	1 mg	5 mg	10 mg
Preparing Stock Solutions	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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