NADP sodium hydrate

Cat. No.: HY-113325A

CAS No.: 698999-85-8

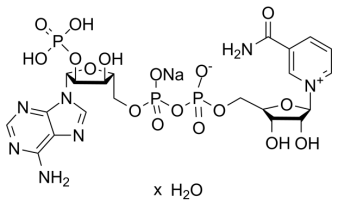
Molecular Formula: $C_{21}H_{29}N_7NaO_{18}P_3$

Molecular Weight: 783.4

Target: Endogenous Metabolite

Pathway: Metabolic Enzyme/Protease

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



SOLVENT & SOLUBILITY

In Vitro

H_2O : 125 mg/mL (159.56 mM; Need ultrasonic)

Preparing Stock Solutions	Mass / Solvent / Concentration	1 mg	5 mg	10 mg
	1 mM	1.2765 mL	6.3824 mL	12.7649 mL
	5 mM	0.2553 mL	1.2765 mL	2.5530 mL
	10 mM	0.1276 mL	0.6382 mL	1.2765 mL

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

BIOLOGICAL ACTIVITY

Description

NADP sodium hydrate, a β-Nicotinamide adenine dinucleotide phosphate sodium salt, is a redox cofactor. NADP sodium hydrate is a key cofactor for electron transfer in the metabolism, being alternately oxidized ($NADP^+$) and reduced (NADPH)[1][2].

IC_{50} & Target

Human Endogenous Metabolite

CUSTOMER VALIDATION

- Cell Prolif. 2021 Feb 25;e13015.
- Cell Oncol. 2023 Mar 13.
- Eur J Pharm Sci. 2023 May 22;106475.
- Insect Biochem Mol Biol. 2023 May 12;103958.

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REFERENCES

[1]. Carugo O, et al. NADP-dependent enzymes. I: Conserved stereochemistry of cofactor binding. Proteins. 1997;28(1):10-28.

[2]. Zhao FL, et al. A genetically encoded biosensor for in vitro and in vivo detection of NADP(.). Biosens Bioelectron. 2016;77:901-906.

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