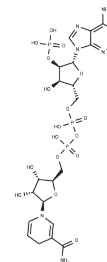


NADPH

Chemical Properties

CAS No. :	53-57-6
Formula:	C ₂₁ H ₃₀ N ₇ O ₁₇ P ₃
Molecular Weight:	745.42
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year Actual storage temperature shall be subject to the COA.



Biological Description

Description	NADPH (reduced nicotinamide adenine dinucleotide phosphate) is a key cellular reducing coenzyme that provides reducing power during anabolic processes such as lipid and nucleic acid synthesis, and participates in the glutathione and thioredoxin systems to maintain cellular redox homeostasis. In addition, NADPH serves as an electron donor for enzymes such as NADPH oxidase, playing a crucial role in the generation of reactive oxygen species (ROS) and immune defense processes.
Targets(IC50)	NADPH

Solubility Information

Solubility	H ₂ O: 116.67 mg/mL (156.52 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
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Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	1.3415 mL	6.7076 mL	13.4153 mL
5 mM	0.2683 mL	1.3415 mL	2.6831 mL
10 mM	0.1342 mL	0.6708 mL	1.3415 mL
50 mM	0.0268 mL	0.1342 mL	0.2683 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. Please use it as soon as possible.

Note: The dilution table applies only to solid products. For liquid products, please calculate the stock solution based on the stated concentration and/or density.

Reference

- Xia W, et al. Roles of NAD (+)/NADH and NADP (+)/NADPH in cell death. Curr Pharm Des. 2009;15 (1):12-9.
- Pollak N, et al. NAD kinase levels control the NADPH concentration in human cells. J Biol Chem. 2007 Nov 16;282 (46):33562-33571.

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