

## NADH disodium salt

## Chemical Properties

CAS No. : 606-68-8

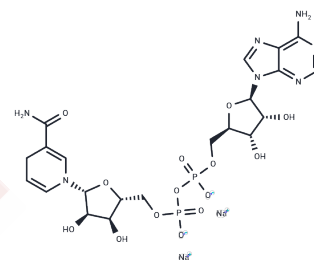
Formula: C<sub>21</sub>H<sub>27</sub>N<sub>7</sub>Na<sub>2</sub>O<sub>14</sub>P<sub>2</sub>

Molecular Weight: 709.4

Storage:

Store under nitrogen, Store at low temperature, Keep away from direct sunlight, Keep away from moisture  
 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	NADH disodium salt (Disodium NADH) hydrate is the reduced form of nicotinamide adenine dinucleotide (NAD) that can donate electrons in a reducing reaction, becoming oxidized to produce NAD <sup>+</sup> . Various enzymes utilize NADH disodium salt hydrate plus H <sup>+</sup> to reduce substrates, generating NAD <sup>+</sup> and the reduced product.
Targets(IC50)	Endogenous Metabolite

## Solubility Information

Solubility	DMSO: 100 mg/mL (140.96 mM), Sonication is recommended. H <sub>2</sub> O: 250 mg/mL (352.41 mM), Sonication is recommended. (< 1 mg/ml refers to the product slightly soluble or insoluble)
In vivo Formulation	10% DMSO+40% PEG300+5% Tween 80+45% Saline: 3.3 mg/mL (4.65 mM), Sonication is recommended. <i>Please add the solvents sequentially, clarifying the solution as much as possible before adding the next one. Dissolve by heating and/or sonication if necessary. Working solution is recommended to be prepared and used immediately. The formulation provided above is for reference purposes only. In vivo formulations may vary and should be modified based on specific experimental conditions.</i>

### Preparing Stock Solutions

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	<b>1mg</b>	<b>5mg</b>	<b>10mg</b>
1 mM	1.4096 mL	7.0482 mL	14.0964 mL
5 mM	0.2819 mL	1.4096 mL	2.8193 mL
10 mM	0.141 mL	0.7048 mL	1.4096 mL
50 mM	0.0282 mL	0.141 mL	0.2819 mL

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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

Kim MS, et al. Enzymatic properties of the membrane-bound NADH oxidase system in the aerobic respiratory chain of *Bacillus cereus*. *J Biochem Mol Biol*. 2004 Nov 30;37(6):753-6.

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