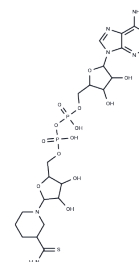


Thio-NAD

Chemical Properties

CAS No. :	4090-29-3
Formula:	C ₂₁ H ₂₇ N ₇ O ₁₃ P ₂ S
Molecular Weight:	679.49
Storage:	Keep away from direct sunlight Powder: -20°C for 3 years In solvent: -80°C for 1 year <small>Actual storage temperature shall be subject to the COA.</small>



Biological Description

Description	Thio-NAD, a thione-modified derivative of the signaling molecule and enzyme cofactor NAD ⁺ , can substitute for NAD ⁺ as a cofactor in alkaline phosphatase (ALP) enzyme activity assays. It is utilized as a substrate in dual-enzyme cycling ELISA for the detection of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) spike glycoprotein, or surface glycoprotein, and live <i>M. tuberculosis</i> in patient sputum. Thio-NAD is characterized by its absorbance at 405 nm, distinguishing it from other cofactors.
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Solubility Information

Solubility	PBS pH 7.2: 10 mg/mL (14.72 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	1.4717 mL	7.3585 mL	14.7169 mL
5 mM	0.2943 mL	1.4717 mL	2.9434 mL
10 mM	0.1472 mL	0.7358 mL	1.4717 mL
50 mM	0.0294 mL	0.1472 mL	0.2943 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.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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Tel: 781-999-4286 E_mail: info@targetmol.com Address: 34 Washington Street, Wellesley Hills, MA 02481