

6-alkyne NAD⁺ sodium

Chemical Properties

CAS No. :

Formula: C₂₄H₂₈N₇NaO₁₄P₂

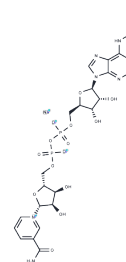
Molecular Weight: 723.46

Keep away from direct sunlight, Store at low temperature

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	6-alkyne NAD ⁺ sodium (6-Parg NAD sodium) is a clickable signaling molecule and enzyme cofactor in NAD ⁺ form. It is used in conjunction with fluorescence labeling for detecting poly(ADP-ribose) polymerase (PARP) protein substrates.
Targets(IC50)	Others

Solubility Information

Solubility	H ₂ O: 2 mg/mL (2.76 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	1.3822 mL	6.9112 mL	13.8225 mL
5 mM	0.2764 mL	1.3822 mL	2.7645 mL
10 mM	0.1382 mL	0.6911 mL	1.3822 mL
50 mM	0.0276 mL	0.1382 mL	0.2764 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

Zhang XN, et al. A ribose-functionalized NAD⁺ with unexpected high activity and selectivity for protein poly-ADP-ribosylation. Nat Commun. 2019 Sep 13;10(1):4196.

Zhang XN, et al. Discovery of an NAD⁺ analogue with enhanced specificity for PARP1. Chem Sci. 2022 Jan 27;13(7):1982-1991.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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