

Niacin

Chemical Properties

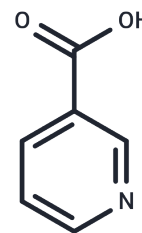
CAS No. : 59-67-6

Formula: C₆H₅NO₂

Molecular Weight: 123.11

Storage: Store under nitrogen, Keep away from direct sunlight
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	Niacin (Nicotinic acid) is a water-soluble vitamin belonging to the vitamin B family, which occurs in many animal and plant tissues, with antihyperlipidemic activity. Niacin is converted to its active form niacinamide, which is a component of the coenzymes nicotinamide adenine dinucleotide (NAD) and its phosphate form, NADP.
Targets(IC50)	Endogenous Metabolite, Autophagy

Solubility Information

Solubility	H ₂ O: 2 mg/mL (16.25 mM), Sonication is recommended. Ethanol: < 1 mg/mL (insoluble or slightly soluble), DMSO: 50 mg/mL (406.14 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	8.1228 mL	40.6141 mL	81.2282 mL
5 mM	1.6246 mL	8.1228 mL	16.2456 mL
10 mM	0.8123 mL	4.0614 mL	8.1228 mL
50 mM	0.1625 mL	0.8123 mL	1.6246 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

Wise A, et al. J Biol Chem. 2003 Mar 14;278(11):9869-74.

Zhao S, Hong Y, Liang Y, et al. Compartmentalized regulation of NAD⁺ by Di (2-ethyl-hexyl) phthalate induces DNA damage in placental trophoblast. Redox biology. 2022, 55: 102414.

Zhu S, Yuan Q, Li X, et al. Molecular recognition of niacin and lipid-lowering drugs by the human hydroxycarboxylic acid receptor 2. Cell Reports. 2023, 42(11).

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