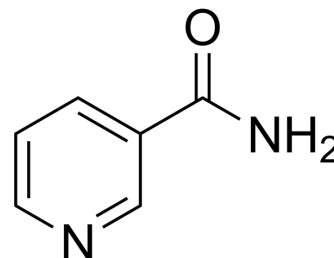


Nicotinamide (Standard)

Cat. No.:	HY-B0150R
CAS No.:	98-92-0
Molecular Formula:	C ₆ H ₆ N ₂ O
Molecular Weight:	122.12
Target:	Endogenous Metabolite; Sirtuin
Pathway:	Metabolic Enzyme/Protease; Cell Cycle/DNA Damage; Epigenetics
Storage:	4°C, sealed storage, away from moisture and light * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture and light)



SOLVENT & SOLUBILITY

In Vitro

H₂O : ≥ 50 mg/mL (409.43 mM)
 DMSO : 50 mg/mL (409.43 mM; Need ultrasonic)
 * "≥" means soluble, but saturation unknown.

Preparing Stock Solutions	Solvent		1 mg	5 mg	10 mg
	Concentration	Mass			
	1 mM		8.1887 mL	40.9433 mL	81.8867 mL
	5 mM		1.6377 mL	8.1887 mL	16.3773 mL
	10 mM		0.8189 mL	4.0943 mL	8.1887 mL

Please refer to the solubility information to select the appropriate solvent.

BIOLOGICAL ACTIVITY

Description

Nicotinamide (Standard) is the analytical standard of Nicotinamide. This product is intended for research and analytical applications. Nicotinamide is a form of vitamin B3 or niacin. Nicotinamide Hydrochloride inhibits SIRT2 activity (IC₅₀: 2 μM). Nicotinamide also inhibits SIRT1. Nicotinamide increases cellular NAD⁺, ATP, ROS levels. Nicotinamide inhibits tumor growth and improves survival. Nicotinamide also has anti-HBV activity^{[1][2][3][4]}.

IC₅₀ & Target

Human Endogenous Metabolite	SIRT2
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CUSTOMER VALIDATION

- Nat Genet. 2023 Nov 20.

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- Cell Stem Cell. 2022 Sep 1;29(9):1366-1381.e9.
 - Circ Res. 2022 Aug 19;131(5):456-472.
 - Nat Commun. 2023 Sep 22;14(1):5917.
 - Nat Commun. 2021 Sep 20;12(1):5548.

See more customer validations on www.MedChemExpress.com

Caution: Product has not been fully validated for medical applications. For research use only.

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