Data Sheet (Cat.No.T13795)



Nicotinamide riboside

Chemical Propert	ies	
CAS No. :	1341-23-7	H ₂ N 0
Formula:	C11H15N2O5	он
Molecular Weight:	255.25	
Appearance: 🦲	no data available	
Storage:	Powder: -20°C for 3 years In solvent: -80°C for 1 year	но

Biological Description

Description	Nicotinamide riboside increases NAD[+] levels and activates SIRT1 and SIRT3, culminating in enhanced oxidative metabolism and protection against high fat diet-induced metabolic abnormalities.
Targets(IC50)	Sirtuin
In vitro	Nicotinamide riboside (NR) supplementation in mammalian cells and mouse tissues increases NAD(+) levels and activates SIRT1 and SIRT3, culminating in enhanced oxidative metabolism and protection against high-fat diet-induced metabolic abnormalities.
In vivo	The natural vitamin Nicotinamide riboside (NR) could be used as a nutritional supplement to ameliorate metabolic and age-related disorders characterized by defective mitochondrial function.

Solubility Information

Solubility	DMSO: 50 mg/mL (195.89 mM),	
	H2O: 50 mg/mL (195.89 mM),Sonication is recommended.	
	(< 1 mg/ml refers to the product slightly soluble or insoluble)	

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	3.9177 mL	19.5886 mL	39.1773 mL
5 mM	0.7835 mL	3.9177 mL	7.8355 mL
10 mM	0.3918 mL	1.9589 mL	3.9177 mL
50 mM 🚕	0.0784 mL	0.3918 mL	0.7835 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.

Reference

Cantó C, et al. The NAD(+) precursor nicotinamide riboside enhances oxidative metabolism and protectsagainst high-fat diet-induced obesity. Cell Metab. 2012 Jun 6;15(6):838-47.

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