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Data Sheet

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Product Name	:	Nicotinamide riboside
Cat. No.	:	PC-23870
CAS No.	:	23111-00-4
Molecular Formula	:	$C_{11}H_{15}CIN_2O_5$
Molecular Weight	:	290.70
Target	:	Sirtuin
Solubility	:	10 mM in DMSO

HO

Biological Activity

Nicotinamide riboside (NR) is an orally active NAD+ precursor, increases NAD+ levels and activates SIRT1 and SIRT3, promotes peroxisome proliferator-activated receptor- γ coactivator 1 (PGC)-1 α expression in the brain. Nicotinamide riboside 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.

Nicotinamide riboside regulates β -secretase 1 degradation and mitochondrial gene expression in Alzheimer's mouse models.

References

Cantó C, et al. Cell Metab. 2012 Jun 6;15(6):838-47.

Bing Gong, et al. Neurobiol Aging. 2013 Jun;34(6):1581-8.

Caution: Product has not been fully validated for medical applications. Lab Use Only! E-mail: tech@probechem.com