

Nicotinamide N-Methyltransferase from Human, Recombinant

Cat. No. NATE-1656

Lot. No. (See product label)

Introduction

Description

Nicotinamide N-Methyltransferase (NNMT) methylates nicotinamide and other pyridine containing compounds. NNMT transfers a methyl group from S-adenosylmethionine (SAM) to nitrogen N1 of nicotinamide to produce 1-methylnicotinamide (MNA) and S-adenosylhomocysteine. MNA is a messenger molecule that increases neurite branching, serves as an anti-thrombotic, and has anti-inflammatory properties. The role of NNMT overexpression in cancers may be to alter epigenetic methylation patterns in two ways: by lowering the intracellular concentration of SAM, required by methyltransferase enzymes, and by depleting the available NAD⁺ by transforming nicotinamide to MNA. Sirtuins use NAD⁺ as a substrate to alter protein acetylation and ribosylation, including histone targets.

Synonyms

NNMT

Product Information

Species

Human

Source

recombinant N-terminal His- and SUMO-tagged protein expressed in E. coli

Form

Liquid

EC Number

E.C. 2.1.1.1

Molecular Weight

42.6 kDa

Purity

> 95% by SDS-PAGE

Storage and Shipping Information

Storage

Store at -80°C

Stability

As supplied, 6 months from the QC date provided on the Certificate of Analysis, when stored properly