

Active Recombinant Human NNMT protein, His-tagged

Cat. No. NNMT-148H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human NNMT(Met1-Leu264) fused with His tag at C-terminal was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-264 a.a.
Description	NNMT (Nicotinamide NMethyltransferase) is a cytosolic enzyme that catalyzes the Nmethylation of nicotinamide and other pyridines using SadenosylLmethionine (AdoM et) as the methyl group donor. The enzyme is highly expressed in liver but is also detected in other organs. NNMT plays a significant role in nicotinamide metabolism and in the detoxification of xenobiotics. The association with thyroid cancer and renal carcinoma makes NNMT useful as a tumor biomarker.
Predicted N Terminal	Met1
Form	Supplied as a 0.2 µ filtered solution in Tris, NaCl and Glycerol.
Bio-activity	Measured by its ability to methylate nicotinamide. The specific activity is >65 pmol/min/g.
Molecular Mass	Predicted Molecular Mass: 30 kDa;SDS-PAGE: 25-29 kDa, reducing conditions.

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Endotoxin	< 1.0 EU per 1 µg of the protein by the LAL method.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain at 5 µg per lane.
Stability	Avoid repeated freeze-thaw cycles. 6 months from date of receipt, -70 centigrade as supplied. 3 months, -70 centigrade under sterile conditions after opening.

GENE INFORMATION

Gene Name	NNMT nicotinamide N-methyltransferase [Homo sapiens]
Official Symbol	NNMT
Synonyms	NNMT; nicotinamide N-methyltransferase;
Gene ID	4837
mRNA Refseq	NM_006169
Protein Refseq	NP_006160
MIM	600008
UniProt ID	P40261
Chromosome Location	11q23.1
Pathway	Biological oxidations, organism-specific biosystem; Metabolic pathways, organism-specific biosystem; Metabolism, organism-specific biosystem; Methylation, organism-

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specific biosystem; Nicotinate and nicotinamide metabolism, organism-specific biosystem; Nicotinate and nicotinamide metabolism, conserved biosystem; Phase II conjugation, organism-specific biosystem;

Function

methyltransferase activity; nicotinamide N-methyltransferase activity; transferase activity;

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