

## Active Recombinant Human NNMT protein, His-tagged

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

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human NNMT(Met1-Leu264) fused with His tag at C-terminal was expressed in E. coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	1-264 a.a.
<b>Description</b>	<p>NNMT (Nicotinamide NMethyltransferase) is a cytosolic enzyme that catalyzes the Nmethylation of nicotinamide and other pyridines using SadenosylMethionine (AdoMet) 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.</p>
<b>Predicted N Terminal</b>	Met1
<b>Form</b>	Supplied as a 0.2 µm filtered solution in Tris, NaCl and Glycerol.
<b>Bio-activity</b>	Measured by its ability to methylate nicotinamide. The specific activity is >65 pmol/min/g.
<b>Molecular Mass</b>	Predicted Molecular Mass: 30 kDa;SDS-PAGE: 25-29 kDa, reducing conditions.

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<b>Endotoxin</b>	< 1.0 EU per 1 µg of the protein by the LAL method.
<b>Purity</b>	>95%, by SDS-PAGE under reducing conditions and visualized by Colloidal Coomassie® Blue stain at 5 µg per lane.
<b>Stability</b>	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

<b>Gene Name</b>	NNMT nicotinamide N-methyltransferase [ Homo sapiens ]
<b>Official Symbol</b>	NNMT
<b>Synonyms</b>	NNMT; nicotinamide N-methyltransferase;
<b>Gene ID</b>	4837
<b>mRNA Refseq</b>	NM_006169
<b>Protein Refseq</b>	NP_006160
<b>MIM</b>	600008
<b>UniProt ID</b>	P40261
<b>Chromosome Location</b>	11q23.1
<b>Pathway</b>	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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