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## Product Data Sheet

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Product Name: NNMT Human

Cat. No.: GP22007

Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Nicotineamide N-methyltransferase; NNMT.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MESGFTSKDT YLSHFNPRDY LEKYYKFGSR HSAESQILKH LLKMLFKIFC LDGVKGDLLI DIGSGPTIYQLLSACESFKE IVVTDYSDQN LQELEKWLKK EPEAFDWSPV VTYVCDLEGN RVKGPEKEEK LRQAVKQVLK CDVTQSQPLG AVPLPPADCV LSTLCLDAAC PDLPTYCRAL RNLGSELLKPG GFLVIMDALK SSYYMIGEYK FSSLPLGREA VEA AVKEAGY TIEWFEVISQ SYSSTMANNEGLFSLVARKL SRPL.		
Formulation	The NNMT solution contains 20mM Tris pH 8.0 & 20% glycerol.		

**Introduction**

NNMT is part of the family of transferases, especially those transferring one-carbon group methyltransferases. NNMT is mostly expressed in the liver, and a lower expression is seen in the kidney, lung, skeletal muscle, placenta and heart. NNMT catalyzes the N-methylation of nicotinamide and other pyridines to form pyridinium ions. This activity is significant for biotransformation of many drugs and xenobiotic compounds. NNMT is accountable for the enzymatic activity which uses S-adenosyl methionine as the methyl donor. NNMT expression is related with tumor stage and DFS time in hepatocellular carcinoma cases. NNMT is a good candidate as a tumor marker of various kinds of cancers. NNMT serum levels have significance in the premature detection and in the management of patients with colorectal cancer.

**Stability**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Background

NNMT Human Recombinant fused with a 20 amino acid His-Tag tag at N-terminus produced in E.Coli is a single, non-glycosylated, polypeptide chain containing a total of 284 amino acids (1-264 a.a.) and having a molecular mass of 31.7 kDa. The NNMT is purified by proprietary chromatographic techniques.

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