

NNMT Human

Description: NNMT Human Recombinant fused with 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.

Catalog #: ENPS-425

For research use only.

Synonyms: Nicotineamide N-methyltransferase, NNMT.

Source: Escherichia Coli.

Physical Appearance: Sterile Filtered colorless solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MESGFTSKDT YLSHFNPRDY
LEKYYKFGSR HSAESQILKH LLKNLFKIFC LDGVKGDLLI DIGSGPTIYQLLSACESFKE
IVVTDYSDQN LQELEKWLLK EPEAFDWSPV VTYVCDLEGN RVKGPEKEEK LRQAVKQVLK
CDVTQSQPLG AVPLPPADCVLSTLCLDAAC PDLPTYCRAL RNLGSLKPG GFLVIMDALK
SSYYMIGEQQ FSSL

Purity: Greater than 95.0% as determined by SDS-PAGE.

Formulation:

The NNMT solution contains 20mM Tris pH 8.0 & 20% glycerol.

Stability:

NNMT although stable 4°C for 4 weeks, should be stored desiccated below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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.

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