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## Recombinant human Nicotinamide N-Methyltransferase/NNMT protein

Catalog Number: ATGP0320

#### PRODUCT INFORMATION

#### **Expression system**

E.coli

#### **Domain**

1-264aa

#### **UniProt No.**

P40261

#### **NCBI Accession No.**

NP 006160

#### **Alternative Names**

Nicotinamide N-methyltransferase

#### **PRODUCT SPECIFICATION**

#### **Molecular Weight**

31.7 kDa (284aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 20% glycerol

#### **Purity**

> 95% by SDS-PAGE

#### Tag

His-Tag

#### **Application**

SDS-PAGE

#### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

NNMT (Nicotinamide N-methyltransferase) belongs to the family of transferases, specifically those transferring one-carbon group methyltransferases. It is predominantly 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 important for biotransformation of many drugs and xenobiotic compounds. Recombinant human NNMT protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography.



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#### **Amino acid Sequence**

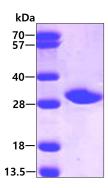
<MGSSHHHHHH SSGLVPRGSH> MESGFTSKDT YLSHFNPRDY LEKYYKFGSR HSAESQILKH LLKNLFKIFC LDGVKGDLLI DIGSGPTIYQ LLSACESFKE IVVTDYSDQN LQELEKWLKK EPEAFDWSPV VTYVCDLEGN RVKGPEKEEK LRQAVKQVLK CDVTQSQPLG AVPLPPADCV LSTLCLDAAC PDLPTYCRAL RNLGSLLKPG GFLVIMDALK SSYYMIGEQK FSSLPLGREA VEAAVKEAGY TIEWFEVISQ SYSSTMANNE GLFSLVARKL SRPL

#### **General References**

Parsons RB., et al. (2002). J Neuropathol Exp Neurol. 61(2):111-24. Smith ML., et al. (1998). Biochim Biophys Acta. 1442(2-3):238-44.

#### **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

