Recombinant human Nicotinamide N-Methyltransferase/NNMT protein

Catalog Number: ATGP3681

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
37.7 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

Biological Activity
Specific activity is > 100nmol/min/mg, and is defined as the amount of enzyme that transfer 1.0nmole of methyl group per minute at 37C.

Tag
His-Tag

Application
Enzyme Activity,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

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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.

Amino acid Sequence

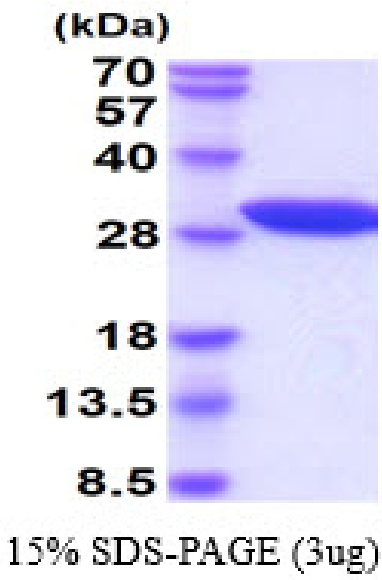
MGSSHHHHHH SSGLVPRGSH MESGFTSKDT YLSHFNPRDY LEKYYKFGSR HSAESQILKH LLKNLFKIFC LDGVKGDLLI DIGSGPTIYQ LLSACESFKE IVVTDYSDQN LQELEKWLKK EPEAFDWSPV VTYVCDLEGN RVKGPEKEEK LRQAVKQVLK CDVTQSQPLG AVPLPPADCV LSTLCLDAAC PDLPTYCRAL RNLGSLLKPG GFLVIMDALK SSYYMIGEQK FSSLPLGREA VEAAVKEAGY TIEWFEVISQ SYSSTMANNE GLFSLVARKL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



15% SDS-PAGE (3ug)

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