

Recombinant mouse Nicotinamide N-Methyltransferase/NNMT protein

Catalog Number: ATGP3589

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-264aa

UniProt No.

O55239

NCBI Accession No.

NP_035054

Alternative Names

Nicotinamide N-methyltransferase isoform1

PRODUCT SPECIFICATION

Molecular Weight

32.1 kDa (288aa) confirmed by MALDI-TOF

Concentration

1mg/ml (determined by absorbance at 280nm)

Formulation

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1mM DTT

Purity

> 90% 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, also known as Nicotinamide N-methyltransferase isoform1, is 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 mouse Nnmt, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.

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Amino acid Sequence

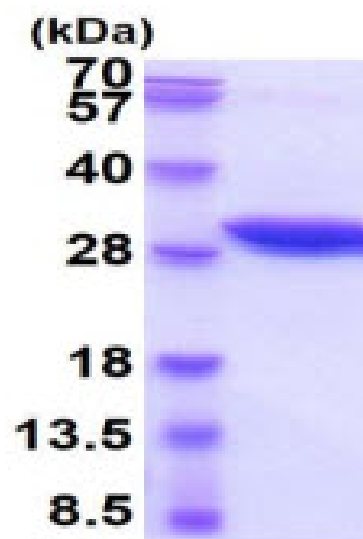
MGSSHHHHHH SSGLVPRGSH MGSHEMESGFT SKDTYLSHFN PRDYLEKYYS FGSRHCAENE ILRHLLKNLF KIFCLGAVKG
ELLIDIGSGP TIYQLLSACE SFTEIIVSDY TDQNLWELQK WLKKEPGAFD WSPVVTVVCD LEGNRMKGPE KEEKLRAIK
QVLKCDVTQS QPLGGVSLPP ADCLLSTLCL DAACPDLPAY RTALRNLGSL LKPGGFLVMV DALKSSYYMI GEQKFSSLPL
GWETVRDAVE EAGYTIEQFE VISQNYSSST SNNEGLFSLV GRKPGRSE

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.

15% SDS-PAGE (3ug)