

Recombinant human NMT1 protein

Catalog Number: ATGP2932

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-496aa

UniProt No.

P30419

NCBI Accession No.

NP_066565.1

Alternative Names

Glycylpeptide N-tetradecanoyltransferase 1, Glycylpeptide N-tetradecanoyltransferase 1, NMT, Myristoyl-CoA:protein N-myristoyltransferase 1

PRODUCT SPECIFICATION

Molecular Weight

59.2 kDa (519aa)

Concentration

1mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4)

Purity

> 85% 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

Myristate, a rare 14-carbon saturated fatty acid, is cotranslationally attached by an amide linkage to the N-terminal glycine residue of cellular and viral proteins with diverse functions. N-myristoyltransferase catalyzes the transfer of myristate from CoA to proteins. N-myristoylation appears to be irreversible and is required for full expression of the biologic activities of several N-myristoylated proteins, including the alpha subunit of the signal-transducing guanine nucleotide-binding protein (G protein) GO. Recombinant human NMT1 protein, fused to His-

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tag at N-terminus, was expressed in *E. coli* and purified by using conventional chromatography techniques.

Amino acid Sequence

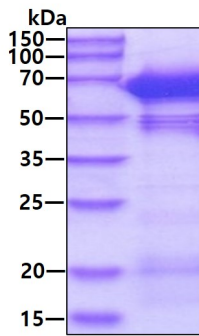
<MGSSHHHHHH SSGLVPRGSH MGS>MADESET AVKPPAPPLP QMMEGNGNGH EHCSDCENEE DNSYNRGGLS
PANDTGAKKK KKKQKKKKEK GSETDSAQDQ PVKMNSLP AE RIQEIQAIE LFSVGQGPAK TMEEASKRSY QFWDTPVVK
LGEVVNTHGP VEPDKDNIRQ EPYTL PQGFT WDALDLGDRG VLKELYLLN ENYVEDDDNM FRFDYSPEFL LWALRPPGWL
PQWHCGVRVV SSRKLVGFIS AIPANIHIYD TEKKMVEINF LCVHKKLR SK RVAPVLIREI TRRVHLEGIF QAVYTAGVVL
PKPVGTCRYW HRSLNPRKLI EVKFSHLSRN MTMQRTMKLY RLPETPKTAG LRPMETKDIP VVHQLLTRYL KQFHLPVMS
QEEVEHWFYP QENIIDTFVV ENANGEV TDF LSFYTL PSTI MNHP THKSLK AAYSFY NVHT QTPLLDLMSD ALVLAKMKGF
DVFNALDLME NKTFLKLF GIGDGNLQYY LYNWKCP SMG AEKVGLVLQ

General References

Glover C.J. et al. (1997) *J. Biol. Chem.* 272:28680-28689.
Van Damme P. et al. (2012) *Proc. Natl. Acad. Sci. u.S.A.* 109:12449-12454.

DATA

SDS-PAGE



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