

N-Myristoyltransferase 1 (NMT1) Active Protein | NMT1 active protein

Active N-Myristoyltransferase 1 (NMT1)

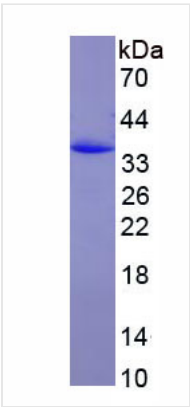
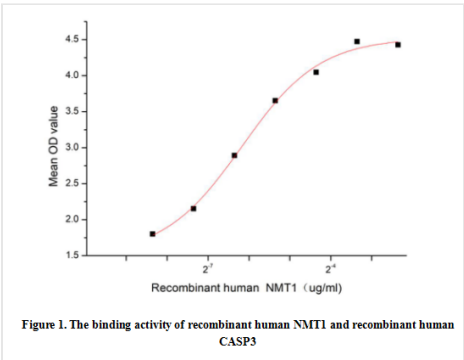
CATALOG # AAA161922	HOST E Coli	APPLICATIONS Activity Assay, Cell Culture
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PRODUCT SYNONYMS

N-Myristoyltransferase 1 (NMT1); Active N-Myristoyltransferase 1 (NMT1); N-Myristoyltransferase 1; Myristoyl-CoA:protein N-myristoyltransferase 1; Glycylpeptide N-tetradecanoyltransferase 14; NMT1 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 90% by SDS-PAGE
Form/Format	Freeze-dried powder; PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Sequence	Met1~Leu22 2
Applicable Applications for NMT1 active protein	Activity Assay, Cell Culture
Species	Human
Expression System	Prokaryotic expression
Tag	N-terminal His Tag
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Isoelectric Point	5.1
Research Area	Enzyme & Kinase
Preparation and Storage	Store at 2-8 degree C for one month, -80 degree C for 12 months



SDS-PAGE
Figure. SDS-PAGE

Bioactivity
N-Myristoyltransferase 1 (NMT1) is an indispensable eukaryotic enzyme that belongs to the NMT family. NMT1 can catalyses the transfer of myristoyl groups to the amino acid terminal residues of numerous proteins. This catalytic process is required for the growth and development of many eukaryotes and viruses. Furthermore, it is recognized that N-myristoylation can also occur posttranslationally on an internal glycine exposed by caspase cleavage during apoptosis. Thus a functional binding ELISA assay was conducted to detect the interaction of recombinant human NMT1 and recombinant human CASP3. Briefly, biotin-linked NMT1 were diluted serially in PBS, with 0.01% BSA (pH 7.4). Duplicate samples of 100 ul were then transferred to CASP3-coated microtiter wells and incubated for 1h at 37 degree C. Wells were washed with PBST 3 times and incubation with Streptavidin-HRP for 30min, then wells were aspirated and washed 5 times. With the addition of substrate solution, wells were incubated 15-25 minutes at 37 degree C. Finally, add 50 ul stop solution to the wells and read at 450 nm immediately. The binding activity of recombinant human NMT1 and recombinant human CASP3 was shown in Figure 1, the EC50 for this effect is 0.01 ug/mL.

ADDITIONAL INFORMATION

Product Categories/Family for NMT1 active protein	Active proteins
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NCBI AND UNIPROT INFORMATION

NCBI GI #	10835073
NCBI GeneID	4836
NCBI Accession #	NP_066565.1
NCBI GenBank Nucleotide #	NM_021079.4
UniProt Accession #	P30419; Q9UE09; A8K7C1
Molecular Weight	48,141 Da
NCBI Official Full Name	glycylpeptide N-tetradecanoyltransferase 1
NCBI Official Synonym Full Names	N-myristoyltransferase 1
NCBI Official Symbol	NMT1
NCBI Official Synonym Symbols	NMT
NCBI Protein Information	glycylpeptide N-tetradecanoyltransferase 1
UniProt Protein Name	Glycylpeptide N-tetradecanoyltransferase 1
UniProt Gene Name	NMT1
UniProt Synonym Gene Names	NMT; NMT 1; Type I N-myristoyltransferase
UniProt Entry Name	NMT1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-active-protein/n-myristoyltransferase-1-nmt1/161922>