

Active Recombinant Human NMT1 protein, His-tagged

Cat. No. NMT1-3711H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Active Recombinant Human NMT1 protein(P30419)(1-222 aa), fused with N-terminal His tag, was expressed in E.coli.
Species	Human
Source	E.coli
ProteinLength	1-222 aa
Form	PBS, pH7.4, containing 0.01% SKL, 1mM DTT, 5% Trehalose and Proclin300.
Bio-activity	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°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°C. Finally, add 50 µstop solution to the wells and read

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at 450 nm immediately. The binding activity of recombinant human NMT1 and recombinant human CASP3 was shown, the EC50 for this effect is 0.01 ug/mL.

Molecular Mass	28.8kDa
Endotoxin	<1.0EU per 1µg (determined by the LAL method).
Purity	> 90%
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Store at -20°C for 12 months. Aliquot and store at -80°C for 12 months.
Reconstitution	Reconstitute in 10mM PBS (pH7.4) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	NMT1 N-myristoyltransferase 1 [Homo sapiens]
Official Symbol	NMT1
Synonyms	NMT1; N-myristoyltransferase 1; glycylpeptide N-tetradecanoyltransferase 1; alternative; short form NMT S; long form; NMT L; myristoyl CoA:protein N myristoyltransferase; NMT; NMT 1; long form, NMT-L; alternative, short form NMT-S; type I N-myristoyltransferase; peptide N-myristoyltransferase 1; myristoyl-CoA:protein N-myristoyltransferase 1;
Gene ID	4836
mRNA Refseq	NM_021079

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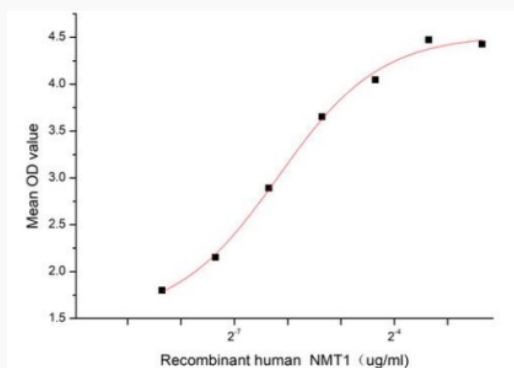
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Protein Refseq NP_066565

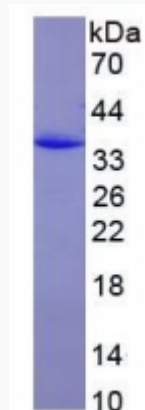
MIM 160993

UniProt ID P30419

Activity



SDS-PAGE



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