

Active Recombinant Human Neurolysin (metallopeptidase M3 family), His-tagged

Cat. No. NLN-5693H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NLN protein was expressed in E. coli with an N-terminal Met and 6-His tag. Ser38-Pro704.
Species	Human
Source	E.coli
Protein Length	38-704 a.a.
Description	NLN, also known as Oligopeptidase M, soluble angiotensin II-binding protein and endopeptidase EC3.4.24.16, is a homologue of Thimet Oligopeptidase, a zinc peptidase of the M3 family that also includes mitochondrial intermediate peptidase. NLN expresses in two forms with the difference of an N-terminal transit peptide that targets the localization to mitochondria.
Form	Supplied as a 0.2 µm filtered solution in Tris, NaCl and Glycerol.
N-terminal Sequence	Met
Molecular Weight	77 kDa
Activity	Measured by its ability to cleave a fluorogenic peptide substrate, (7-methoxycoumarin-4-yl)acetyl-Pro-Leu-Gly-Pro-D-Lys (2, 4-dinitrophenyl)-OH or Mca-PLGPK (Dnp)-OH. The specific activity is > 70 pmoles/min/µg, as measured under the described conditions.

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Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	73 kDa, reducing conditions.
Purity	>95%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 6 months from date of receipt, -20 to -70°C as supplied. 3 months, -20 to -70°C under sterile conditions after opening.

GENE INFORMATION

Gene Name	NLN neurolysin (metallopeptidase M3 family) [Homo sapiens]
Official Symbol	NLN
Synonyms	NLN; neurolysin (metallopeptidase M3 family); MEP; MOP; AGTBP; EP24.16; FLJ23002; KIAA1226; DKFZp564F123; neurolysin, mitochondrial; endopeptidase 24.16; microsomal endopeptidase; neurotensin endopeptidase; angiotensin binding protein; angiotensin-binding protein; mitochondrial oligopeptidase M; EC 3.4.24.16; EC 3.4.24; OTTHUMP00000123454; OTTHUMP00000222651
Gene ID	57486
mRNA Refseq	NM_020726
Protein Refseq	NP_065777
MIM	611530

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UniProt ID	Q9BYT8
Chromosome Location	5q12.3
Pathway	Renin-angiotensin system
Function	metal ion binding; metalloendopeptidase activity; peptidase activity
PDB rendering based on 1i1i.	