LONP2 Blocking Peptide – The purity is >90%,tested by HPLC and MS. Purity

PRODUCT OVERVIEW

Product Name	LONP2, Blocking Peptide
Full Product Name	LONP2 Blocking Peptide
Product Gene Name	LONP2 blocking peptide
Product Synonym Names	Lon peptidase 2, peroxisomal; Lon protease 2; Lon protease homolog 2; Lon protease homolog 2 peroxisomal; Lon protease like protein 2; Lon protease-like protein 2; LONP; lonp2; LONP2_HUMAN; LONPL; MGC4840; peroxisomal; Peroxisomal Lon protease; Peroxisomal Lon protease homolog 2; Peroxisomal LON protease like
Form/Format	Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 10 mg/ml.
Purity/Purification	The purity is >90%,tested by HPLC and MS.
Preparation and Storage	Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C.
Antibody/Peptide Pairs	LONP2 peptide (MBS9619602) is used for blocking the activity of LONP2 antibody (MBS9602148)
Molecular Weight	89,660 Da
Supply Chain Verification	Manufactured in a lab with traceable raw materials manufactured on site. Coordinated product portfolio of antibodies, pairs, conjugates, recombinant proteins, and immunoassay materials available, please inquire.
Notes	For phospho antibody, we provide phospho peptide (0.5mg) and non-phospho peptide (0.5mg)
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for LONP2 blocking peptide	Blocking/Control
Related Product Information for LONP2 blocking peptide	Blocking peptides are peptides that bind specifically to the target antibody and block antibody binding. These peptide usually contains the epitope recognized by the antibody. Antibodies bound to the blocking peptide no longer bind to the epitope on the target protein. This mechanism is useful when non-specific binding is an issue, for example, in Western blotting (immunoblot) and immunohistochemistry (IHC). By comparing the staining from the blocked antibody versus the antibody alone, one can see which staining is specific; Specific binding will be absent from the western blot or immunostaining performed with the neutralized antibody.
Other Notes	Small volumes of LONP2 blocking peptide vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.
Searchable Terms for LONP2 purchase	MBS9619602 is a blocking peptide targeting LONP2.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for LONP2. It may not necessarily be applicable to this product.

NCBI GI #	665821155
NCBI GeneID	83752
NCBI Accession #	NP_001287877.1
UniProt Primary Accession #	Q86WA8
UniProt Secondary Accession #	Q0D2H6; Q8N3B9; Q8NCE9; Q96K43; B7ZKL7
UniProt Related Accession #	Q86WA8

GenBank Nucleotide #	NM_001300948.2
NCBI Official Full Name	lon protease homolog 2, peroxisomal isoform 2
NCBI Official Synonym Full Names	lon peptidase 2, peroxisomal
NCBI Official Symbol	LONP2
NCBI Official Synonym Symbols	LONP; PLON; LONPL; PSLON
UniProt Protein Name	Lon protease homolog 2, peroxisomal
UniProt Synonym Protein Names	Lon protease-like protein 2; Lon protease 2; Peroxisomal Lon protease
UniProt Gene Name	LONP2
UniProt Synonym Gene Names	LONP; Lon protease 2
UniProt Entry Name	LONP2_HUMAN
NCBI Protein Information	lon protease homolog 2, peroxisomal
NCBI Summary for LONP2	In human, peroxisomes function primarily to catalyze fatty acid beta-oxidation and, as a by-product, produce hydrogen peroxide and superoxide. The protein encoded by this gene is an ATP-dependent protease that likely plays a role in maintaining overall peroxisome homeostasis as well as proteolytically degrading peroxisomal proteins damaged by oxidation. The protein has an N-terminal Lon N substrate recognition domain, an ATPase domain, a proteolytic domain, and, in some isoforms, a C-terminal peroxisome targeting sequence. Alternative splicing results in multiple transcript variants encoding distinct isoforms. [provided by RefSeq, Jan 2017]
UniProt Comments for LONP2	LONP2: ATP-dependent serine protease that mediates the selective degradation of misfolded and unassembled polypeptides in the peroxisomal matrix. Necessary for type 2 peroxisome targeting signal (PTS2)-containing protein processing and facilitates peroxisome matrix protein import. May indirectly regulate peroxisomal fatty acid beta-oxidation through degradation of the self-processed forms of TYSND1. Belongs to the peptidase S16 family. Protein type: Protease; EC 3.4.21.- Chromosomal Location of Human Ortholog: 16q12.1 Cellular Component: peroxisomal matrix; membrane; peroxisome; nucleus Molecular Function: peptidase activity; protein binding; enzyme binding; protease binding; ATP-dependent peptidase activity; serine-type endopeptidase activity; ATP binding; receptor binding Biological Process: protein targeting to peroxisome; peroxisome organization and biogenesis; misfolded or incompletely synthesized protein catabolic process; protein import into peroxisome matrix; regulation of fatty acid beta-oxidation; protein processing; response to organic cyclic substance
Research Articles on LONP2	**1.** The proteolytic activity of oligomeric Tysnd1 is in turn controlled by self-cleavage of Tysnd1 and degradation of Tysnd1 cleavage products by PsLon.
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