Peroxisomal Leader Peptide-Processing Protease (TYSND1) Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	Peroxisomal leader peptide-processing protease (Tysnd1), Recombinant Protein
Full Product Name	Recombinant Mouse Peroxisomal leader peptide-processing protease (Tysnd1)
Product Gene Name	Tysnd1 recombinant protein
Product Synonym Gene Name	Tysnd1
Sequence	MGRQWGPSMR VAEQAGCVVS ASRAGQPDAG SWSCSGVILS RNPGLVLCHG GIFTPFLRTG SAALTQTGTA FLPGDSCSDD LRLHVQWGPT AASPAGRADQ ELPGLCTPQC ASLGLEPGAP SRARARPLQP PRPAQLLLLL SCPAFRSHFA RLFGADAVDQ WHFVSSAPDD AVSEEEEEDQ LRALGWFALL RVQRGAAAEE RRGPVVTVAP LGAVVKGAPL LACGSPFGAF CPDIFLNTLS RGVLSNAAGP LLLTDARCLP GTEGGGVFAA RPAGALVALV AAPLCWKARE WVGLTLLCAA APLLQVARWA LARLHPGSAS LSVLLPPPDV STPRGLPLRD LGPPWAAAAV LVECGTVWGS GVVVAPRLVV TCRHVAPREA ARVLVHSATP KNVAIWGQVV FATQETSPYD IAVVSLEEEL NGVPTPVPAG HFHEGEPVSV VGFGVFGQAC GPSVTSGILS AVVRVDGSPV MLQTTCAVHG GSSGGPLFSS GSGDLLGIVA SNTRDNNTGA TYPHLNFSIP ITVLQPALKQ YSQTGDLGGL RELDHTTEPV RVVWRLQRPL SEVPRSKL
Host	E Coli or Yeast or Baculovirus or Mammalian Cell
Form/Format	Lyophilized or liquid (Format to be determined during the manufacturing process)
Purity/Purification	Greater or equal to 85% purity as determined by SDS-PAGE. (lot specific)
Preparation and Storage	Store at -20 degrees C. For long-term storage, store at -20 degrees C or -80 degrees C. Store working aliquots at 4 degrees C for up to one week. Repeated freezing and thawing is not recommended.
Molecular Weight	59,066 Da
Sequence Positions	1-568, Full length protein
Tag Information	This protein contains an N-terminal tag and may also contain a C-terminal tag. Tag types are determined by various factors including tag-protein stability, please inquire for tag information.
Sterility	Sterile filter available upon request.
Endotoxin	Low endotoxin available upon request.
3D Structure	ModBase 3D Structure for Q9DBA6
Species	Mouse
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for Tysnd1 recombinant protein	MBS1352769 is a recombinant protein targeting Tysnd1. Also known as Recombinant Mouse Peroxisomal leader peptide-processing protease (Tysnd1). Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of Tysnd1 recombinant protein 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.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for Tysnd1. It may not necessarily be applicable to this product.

NCBI GI #	441418800
NCBI GeneID	71767

NCBI Accession #	NP_001259019.1
UniProt Primary Accession #	Q9DBA6
UniProt Secondary Accession #	Q0VE90
UniProt Related Accession #	Q9DBA6
GenBank Nucleotide #	NM_001272090.1
NCBI Official Full Name	peroxisomal leader peptide-processing protease isoform b
NCBI Official Synonym Full Names	trypsin domain containing 1
NCBI Official Symbol	Tysnd1
NCBI Official Synonym Symbols	1300019N10Rik
UniProt Protein Name	Peroxisomal leader peptide-processing protease
UniProt Synonym Protein Names	Trypsin domain-containing protein 1
Protein Family	Peroxisomal leader peptide-processing protease
UniProt Gene Name	Tysnd1
NCBI Protein Information	peroxisomal leader peptide-processing protease
NCBI Summary for Tysnd1	This gene encodes a protease that removes the N-terminal peroxisomal targeting signal (PTS2) from proteins produced in the cytosol, thereby facilitating their import into the peroxisome. The encoded protein is also capable of removing the C-terminal peroxisomal targeting signal (PTS1) from proteins in the peroxisomal matrix. The full-length protein undergoes self-cleavage to produce shorter, potentially inactive, peptides. Alternative splicing results in multiple transcript variants for this gene. [provided by RefSeq, Jan 2013]
UniProt Comments for Tysnd1	Peroxisomal protease that mediates both the removal of the leader peptide from proteins containing a PTS2 target sequence and processes several PTS1-containing proteins. Catalyzes the processing of PTS1-proteins involved in the peroxisomal beta-oxidation of fatty acids ().
Research Articles on Tysnd1	**1.** Our data established that peroxisomal processing protease Tysnd1 is necessary to mediate the physiological functions of PTS2-containing substrates.
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