TLN1 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	TLN1, Recombinant Protein
Full Product Name	Recombinant Human TLN1 Protein
Product Gene Name	TLN1 recombinant protein
Product Synonym Names	TLN1; ILWEQ; TLN
Sequence	MLDGTVKTIM VDDSKTVTDM LMTICARIGI TNHDEYSLVR ELMEEKKEEI TGTLR KDK TLLRDEKKME KLKQKLHTDD ELNWLDHGRT LREQGVEEHE TLLLRRKFF YSDQNVDSR DPVQLNLLYV QARDDILNGS HPVSFDKACE FAGFQCQIQF GPH NEQKH KAGFLDLKDF LPKEYVKQKG ERKIFQAHKN CGQMSEIEAK VRYVKLAR SLKTYGVSFF LVKEKMKGKN KLVPRLLGIT KECVMRVDEK TKEVIQEWNL TNIK RWAA SPKSFTLDFG DYQDGYYSVQ TTEGEQIAQL IAGYIDII
Host	E Coli
Form/Format	20 mM Tris-HCl, 0.5 M NaCl, pH 8.0, with 10% glycerol.
Purity/Purification	> 90% as determined by SDS-PAGE
Concentration	0.2 mg/mL (lot specific)
Preparation and Storage	Store it under sterile conditions at -20°C upon receiving. Recommend to aliquot the protein into smaller quantities for optimal storage. Avoid repeated freeze-thaw cycles. The recombinant protein is stable for up to 6 months from date of receipt at -80°C.
Molecular Weight	28kDa
OMIM	AF078828 mRNA
3D Structure	ModBase 3D Structure for Q9Y490
Source	Human
Protein residues	with N-terminal GST-tagged.
Predicted MW	62.8 kDa
Observed MW	63 kDa
ENDOTOXIN LEVEL	Please contact us for more information.
USAGE	TLN1 Protein-Centrifuge the standard vial at 6000-10000rpm for 30s.
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Applications Tested/Suitable for TLN1 recombinant protein	Western Blot (WB), ELISA (EIA), SDS-PAGE, Antigen
Related Product Information for TLN1 recombinant protein	TLN1 is a high-molecular-weight cytoskeletal protein concentrated at regions of cell-substratum contactand, in lymphocytes, at cell-cell contacts. Talin-1 is a cytoskeletal protein which is concentrated in areas of cell-substratum and cell-cell contacts. Thi s protein plays a significant role in the assembly of actin filaments and in spreading and migration of various cell types, including fibroblasts and osteoclasts. It codistributes with integrins in the cell surface membrane in order to assist in the attachment of adherent cells to extracellular matrices and of lymphocytes to other cells. The N-terminus of this protein contains elements for localization to cell-extracellular matrix junctions. The C-terminus contains binding sites for proteins such as beta-1-integrin, actin, and vinculin.

Other Notes	Small volumes of TLN1 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.
Searchable Terms for TLN1 purchase	MBS286225 is a recombinant protein targeting TLN1. Also known as Recombinant Human TLN1 Protein. Host: E Coli.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TLN1. It may not necessarily be applicable to this product.

NCBI GI #	223029410
NCBI GeneID	7094
NCBI Accession #	NP_006280.3
UniProt Primary Accession #	Q9Y490
UniProt Secondary Accession #	Q86YD0; Q9NZQ2; Q9UHH8; Q9UPX3; A6NMY0
UniProt Related Accession #	Q9Y490
GenBank Nucleotide #	NM_006289.3
NCBI Official Full Name	talin-1
NCBI Official Synonym Full Names	talin 1
NCBI Official Symbol	TLN1
NCBI Official Synonym Symbols	TLN; ILWEQ
UniProt Protein Name	Talin-1
Protein Family	Talin
UniProt Gene Name	TLN1
UniProt Synonym Gene Names	KIAA1027; TLN
UniProt Entry Name	TLN1_HUMAN
NCBI Protein Information	talin-1
NCBI Summary for TLN1	This gene encodes a cytoskeletal protein that is concentrated in areas of cell-substratum and cell-cell contacts. The encoded protein plays a significant role in the assembly of actin filaments and in spreading and migration of various cell types, including fibroblasts and osteoclasts. It codistributes with integrins in the cell surface membrane in order to assist in the attachment of adherent cells to extracellular matrices and of lymphocytes to other cells. The N-terminus of this protein contains elements for localization to cell-extracellular matrix junctions. The C-terminus contains binding sites for proteins such as beta-1-integrin, actin, and vinculin. [provided by RefSeq, Feb 2009]

UniProt Comments for TLN1	Talin-1: a cytoskeletal protein which is concentrated in areas of cell-substratum and cell-cell contacts. This protein plays a significant role in the assembly of actin filaments and in spreading and migration of various cell types, including fibroblasts and osteoclasts. It codistributes with integrins in the cell surface membrane in order to assist in the attachment of adherent cells to extracellular matrices and of lymphocytes to other cells. The N-terminus of this protein contains elements for localization to cell-extracellular matrix junctions. The C-terminus contains binding sites for proteins such as beta-1-integrin, actin, and vinculin. Protein type: Cytoskeletal; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 9p13 Cellular Component: cell-cell adherens junction; cytoplasm; cytosol; extracellular region; focal adhesion; intercellular junction; microtubule organizing center; plasma membrane; ruffle Molecular Function: integrin binding; LIM domain binding; protein binding; vinculin binding Biological Process: intercellular junction assembly; muscle contraction; platelet degranulation
Research Articles on TLN1	**1.** Both TLN-1 and TLN-2 levels correlate with tumorigenicity in human HCC, indicating that these molecules constitute important molecular targets for the diagnosis and/or treatment of hepatocellular carcinoma .
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