C-Type Lectin Domain Family 4 Member M (CLEC4M) Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	C-type lectin domain family 4 member M (CLEC4M), Recombinant Protein
Full Product Name	Recombinant Human C-type lectin domain family 4 member M (CLEC4M), partial
Product Gene Name	CLEC4M recombinant protein
Product Synonym Gene Name	CLEC4M
Sequence	QVSKVPSSLS QEQSEQDAIY QNLTQLKAAV GELSEKSKLQ EIYQELTQLK AAVGELPEKS KLQEIYQELT RLKAAVGELP EKSKLQEIYQ ELTRLKAAVG ELPEKSKLQE IYQELTRLKA AVGELPEKSK LQEIYQELTE LKAAVGELPE KSKLQEIYQE LTQLKAAVGE LPDQSKQQQI YQELTDLKTA FERLCRHCPK DWTFFQGNCY FMSNSQRNWH DSVTACQEVR AQLVVIKTAE EQNFLQLQTS RSNRFSWMGL SDLNQEGTWQ WVDGSPLSPS FQRYWNSGEP NNSGNEDCAE FSGSGWNDNR CDVDNYWICK KPAACFRDE
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	24,408 Da
Sequence Positions	71-399
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.
OMIM	605872
3D Structure	ModBase 3D Structure for Q9H2X3
Species	Human
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CLEC4M recombinant protein	MBS1408685 is a recombinant protein targeting CLEC4M. Also known as Recombinant Human C-type lectin domain family 4 member M (CLEC4M), partial. Host: E Coli or Yeast or Baculovirus or Mammalian Cell.
Other Notes	Small volumes of CLEC4M 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 CLEC4M. It may not necessarily be applicable to this product.

NCBI GI #	223278337
NCBI GeneID	10332
NCBI Accession #	NP_001138377.1

UniProt Primary Accession #	Q9H2X3
UniProt Secondary Accession #	Q69F40; Q969M4; Q96QP3; Q96QP4; Q96QP5; Q96QP6; Q9BXS3; Q9H2Q9; Q9H8F0; A6NKI4; A8K8B3
UniProt Related Accession #	Q9H2X3
GenBank Nucleotide #	NM_001144905.1
NCBI Official Full Name	C-type lectin domain family 4 member M isoform 12
NCBI Official Synonym Full Names	C-type lectin domain family 4 member M
NCBI Official Symbol	CLEC4M
NCBI Official Synonym Symbols	CD299; LSIGN; CD209L; L-SIGN; DCSIGNR; HP10347; DC-SIGN2; DC-SIGNR
UniProt Protein Name	C-type lectin domain family 4 member M
UniProt Synonym Protein Names	CD209 antigen-like protein 1; DC-SIGN-related protein; DC-SIGNR; Dendritic cell-specific ICAM-3-grabbing non-integrin 2; DC-SIGN2; Liver/lymph node-specific ICAM-3-grabbing non-integrin; L-SIGN; CD_antigen: CD299
Protein Family	C-type lectin domain family
UniProt Gene Name	CLEC4M
UniProt Synonym Gene Names	CD209L; CD209L1; CD299; DC-SIGNR; DC-SIGN2; L-SIGN
NCBI Protein Information	C-type lectin domain family 4 member M
NCBI Summary for CLEC4M	This gene encodes a transmembrane receptor and is often referred to as L-SIGN because of its expression in the endothelial cells of the lymph nodes and liver. The encoded protein is involved in the innate immune system and recognizes numerous evolutionarily divergent pathogens ranging from parasites to viruses, with a large impact on public health. The protein is organized into three distinct domains: an N-terminal transmembrane domain, a tandem-repeat neck domain and C-type lectin carbohydrate recognition domain. The extracellular region consisting of the C-type lectin and neck domains has a dual function as a pathogen recognition receptor and a cell adhesion receptor by binding carbohydrate ligands on the surface of microbes and endogenous cells. The neck region is important for homo-oligomerization which allows the receptor to bind multivalent ligands with high avidity. Variations in the number of 23 amino acid repeats in the neck domain of this protein are common and have a significant impact on ligand binding ability. This gene is closely related in terms of both sequence and function to a neighboring gene (GeneID 30835; often referred to as DC-SIGN or CD209). DC-SIGN and L-SIGN differ in their ligand-binding properties and distribution. Alternative splicing results in multiple variants.[provided by RefSeq, Feb 2009]
UniProt Comments for CLEC4M	Probable pathogen-recognition receptor involved in peripheral immune surveillance in liver. May mediate the endocytosis of pathogens which are subsequently degraded in lysosomal compartments. Is a receptor for ICAM3, probably by binding to mannose-like carbohydrates.
Research Articles on CLEC4M	**1.** DC-SIGNR promoted gastric cancer liver metastasis mediated with HNRNPKP2 which expression was regulated by STAT5A. And HNRNPKP2 decreased the expression of downstream target gene CXCR4. These findings indicated potential therapeutic candidates for gastric cancer liver metastasis.
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