CD30L/TNFSF8 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	CD30L/TNFSF8, Recombinant Protein
Full Product Name	Recombinant Human CD30L/TNFSF8 protein (His tag)
Product Gene Name	CD30L/TNFSF8 recombinant protein
Product Synonym Names	Tumor necrosis factor ligand superfamily member 8; CD30 ligand; CD30-L; CD antigen CD153; TNFSF8; CD30L; CD30LG
Sequence	Gln 63-Asp 234
Host	HEK293 Cells
Form/Format	Lyophilized from sterile PBS, pH 7.4.
Purity/Purification	>95 % as determined by reducing SDS-PAGE.
Preparation and Storage	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80 degree C. Reconstituted protein solution can be stored at 4-8 degree C for 2-7 days. Aliquots of reconstituted samples are stable at < -20 degree C for 3 months.
Molecular Weight	26,017 Da
Chromosome Location	Chromosome: 9; NC_000009.11 (117655623..117692875, complement). Location: 9q33
OMIM	603875
3D Structure	ModBase 3D Structure for P32971
Species	Human
Tag	C-His
Protein Construction	A DNA sequence encoding the Human CD30L protein (P32971)(Gln 63-Asp 234) was expressed with a C-His.$
Product Categories/Family for CD30L/TNFSF8 recombinant protein	immunology
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Related Product Information for CD30L/TNFSF8 recombinant protein	CD30 ligand (CD30L), also known as CD153 and TNFSF8, is a membrane-associated glycoprotein belonging to the TNF superfamily and TNFR superfamily, and is a specific ligand for CD30/TNFRSF8 originally described as a cell surface antigen and a marker for Hodgkin lymphoma and related hematologic malignancies. CD30L is a type-II membrane glycoprotein expressed on activated T cells, stimulated monocyte-macrophages, granulocytes, eosinophils, and some Burkitt-like lymphoma cell lines. CD30L is capable of transducing signals through CD30 on different CD30+ lymphoma cell lines, and mediates pleiotropic biologic effects including cell proliferation, activation, differentiation, as well as cell death by apoptosis. CD30-CD30 ligand interaction has been suggested to have a pathophysiologic role in malignant lymphomas, particularly Hodgkin disease, large cell anaplastic lymphomas and Burkitt lymphomas, and is also involved in activation and functioning of the T cell-dependent immune response. Thus, CD153 and its receptor CD30 are regarded as therapeutic targets in hematologic malignancies, autoimmune and inflammatory diseases.
Other Notes	Small volumes of CD30L/TNFSF8 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 CD30L/TNFSF8 purchase	MBS2571334 is a recombinant protein targeting CD30L/TNFSF8. Also known as Recombinant Human CD30L/TNFSF8 protein (His tag). Host: HEK293 Cells.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD30L/TNFSF8. It may not necessarily be applicable to this product.

NCBI GI #	4507607
NCBI GeneID	944
NCBI Accession #	NP_001235.1
UniProt Primary Accession #	P32971
UniProt Secondary Accession #	O43404
UniProt Related Accession #	P32971
GenBank Nucleotide #	NM_001244.3
NCBI Official Full Name	tumor necrosis factor ligand superfamily member 8 isoform 1
NCBI Official Synonym Full Names	tumor necrosis factor (ligand) superfamily, member 8
NCBI Official Symbol	TNFSF8
NCBI Official Synonym Symbols	CD153; CD30L; CD30LG
UniProt Protein Name	Tumor necrosis factor ligand superfamily member 8
UniProt Synonym Protein Names	CD30 ligand
UniProt Gene Name	TNFSF8
UniProt Synonym Gene Names	CD30L; CD30LG; CD30-L
UniProt Entry Name	TNFL8_HUMAN
NCBI Protein Information	tumor necrosis factor ligand superfamily member 8; CD30-L; CD30 ligand; CD153 antigen; CD30 antigen ligand
NCBI Summary for CD30L/TNFSF8	The protein encoded by this gene is a cytokine that belongs to the tumor necrosis factor (TNF) ligand family. This cytokine is a ligand for TNFRSF8/CD30, which is a cell surface antigen and a marker for Hodgkin lymphoma and related hematologic malignancies. The engagement of this cytokine expressed on B cell surface plays an inhibitory role in modulating Ig class switch. This cytokine was shown to enhance cell proliferation of some lymphoma cell lines, while to induce cell death and reduce cell proliferation of other lymphoma cell lines. The pleiotropic biologic activities of this cytokine on different CD30+ lymphoma cell lines may play a pathophysiologic role in Hodgkin's and some non-Hodgkin's lymphomas. Two transcript variants encoding different isoforms have been found for this gene. [provided by RefSeq, Nov 2011]
UniProt Comments for CD30L/TNFSF8	TNFSF8: Cytokine that binds to TNFRSF8/CD30. Induces proliferation of T-cells. Belongs to the tumor necrosis factor family. Protein type: Apoptosis; Cytokine; Membrane protein, integral Chromosomal Location of Human Ortholog: 9q33 Cellular Component: extracellular space; integral to plasma membrane Molecular Function: cytokine activity; tumor necrosis factor receptor binding; receptor binding Biological Process: cell proliferation; CD8-positive, alpha-beta T cell differentiation; defense response to Gram-positive bacterium; cell-cell signaling; apoptosis; immune response; positive regulation of transcription from RNA polymerase II promoter; signal transduction
Research Articles on CD30L/TNFSF8	**1.** a novel and unexpected role for CD30/CD30L that contributes to proinflammatory immune responses
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