CD7 Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	CD7, Recombinant Protein
Full Product Name	Recombinant Human CD7
Product Gene Name	CD7 recombinant protein
Product Synonym Names	CD7 Human; CD7 Human Recombinant; T-cell antigen CD7; GP40; LEU-9; Tp40; TP41; CD7; T-cell leukemia antigen; T-cell surface antigen Leu-9; CD_antigen=CD7
Sequence	MGSSHHH HHH SSGLVPRGSH MGSAQE VQQS PHCTTVPVGA SVNITCSTSG GLRGIYLRQL GPQPQDIIYY EDGVVPTTDR RFRGRIDFSG SQDNLTITMH RLQLSDTGTY TCQAITEVNV YGSGTLVLVT EEQSQGWHRC SDAPPRASAL PAPPTGSALP DPQTASALPD PPAASALP
Host	E Coli
Form/Format	800x600 CD7 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.4M Urea and 10% glycerol. Normal 0 false false false EN-US X-NONE HE MicrosoftInternetExplorer4 DefSemiHidden="true" DefQFormat="false" DefPriority="99" LatentStyleCount="26
Purity/Purification	Greater than 90% as determined by SDS-PAGE.
Molecular Weight	25,409 Da
OMIM	186820
3D Structure	ModBase 3D Structure for P09564
Product Categories/Family for CD7 recombinant protein	Recombinant & Natural Proteins; CD Antigens
Related Product Information for CD7 recombinant protein	**Description:** CD7 Human Recombinant produced in E Coli is a single, non-glycosylated polypeptide chain containing 178 amino acids (26-180 a.a) and having a molecular mass of 18.8 kDa.CD7 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques. 800x600 **Introduction:** T-cell antigen CD7 (CD7) is a type I transmembrane glycoprotein which is expressed on pluripotential hemapoietic cells, nearly all human thymocytes and some peripheral blood T cells. The CD7 molecule is missing in a subset of human T cells under some physiologic conditions. An increase in CD7 negative T cells can be observed in a number of inflammatory skin diseases.
Other Notes	Small volumes of CD7 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 CD7 purchase	MBS145928 is a recombinant protein targeting CD7. Also known as Recombinant Human CD7. Host: E Coli.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CD7. It may not necessarily be applicable to this product.

NCBI GI #	5453613
NCBI GeneID	924
NCBI Accession #	NP_006128.1
UniProt Primary Accession #	P09564
UniProt Related Accession #	P09564

GenBank Nucleotide #	NM_006137.6
NCBI Official Full Name	T-cell antigen CD7
NCBI Official Synonym Full Names	CD7 molecule
NCBI Official Symbol	CD7
NCBI Official Synonym Symbols	GP40; TP41; Tp40; LEU-9
UniProt Protein Name	T-cell antigen CD7
UniProt Synonym Protein Names	GP40; T-cell leukemia antigen; T-cell surface antigen Leu-9; TP41; CD_antigen: CD7
Protein Family	T-cell antigen
UniProt Gene Name	CD7
UniProt Entry Name	CD7_HUMAN
NCBI Protein Information	T-cell antigen CD7; CD7 antigen (p41); T-cell leukemia antigen; T-cell surface antigen Leu-9; p41 protein
NCBI Summary for CD7	This gene encodes a transmembrane protein which is a member of the immunoglobulin superfamily. This protein is found on thymocytes and mature T cells. It plays an essential role in T-cell interactions and also in T-cell/B-cell interaction during early lymphoid development. [provided by RefSeq, Jul 2008]
UniProt Comments for CD7	CD7: Not yet known. Protein type: Membrane protein, integral; Immunoglobulin superfamily Chromosomal Location of Human Ortholog: 17q25.2-q25.3 Cellular Component: membrane; plasma membrane; integral to membrane Molecular Function: receptor activity Biological Process: T cell activation; homeostasis of number of cells within a tissue; immune response; transmembrane receptor protein tyrosine kinase signaling pathway
Research Articles on CD7	**1.** We showed that the CADM1 versus CD7 plot is capable of discriminating clonally expanding HTLV-I-infected cells in indolent and acute-type T-cell leukemia-lymphomas and in asymptomatic carriers
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