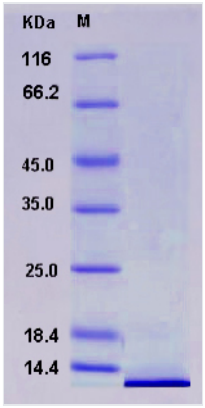
CCL22 / MDC Human Recombinant Protein

PRODUCT OVERVIEW

Product Name	CCL22 / MDC, Recombinant Protein
Full Product Name	Recombinant Human CCL22 / MDC Protein (His tag)
Product Gene Name	CCL22 / MDC recombinant protein
Product Synonym Names	A-152E5.1, ABCD-1, DC/B-CK, MDC, SCYA22, STCP-1
Host	E Coli
Form/Format	Lyophilized from sterile 30% Acetonitrile, 0.1% TFA
Purity/Purification	> 90 % as determined by SDS-PAGE
Preparation and Storage	Samples are stable for up to twelve months from date of receipt at -70 degree C
Molecular Weight	10,625 Da
OMIM	U83239 mRNA
3D Structure	ModBase 3D Structure for O00626
Predicted N Terminal	Met
ISO Certification	Manufactured in an ISO 9001:2015 Certified Laboratory.
Application Notes for CCL22 / MDC recombinant protein	The recombinant human CCL22 consisting of 84 amino acids and has a calculated molecular mass of 9.7 KDa. It migrates as an 10 kDa band in SDS-PAGE under reducing conditions.
Related Product Information for CCL22 / MDC recombinant protein	Background: Chemokine (C-C motif) ligand 22 (ABCD-1 / CCL22)is a kind of CC chemokine which is a family of secreted proteins involved in immunoregulatory and inflammatory processes. The cytokine displays chemotactic activity for monocytes, dendritic cells, natural killer cells and for chronically activated T lymphocytes. It also displays a mild activity for primary activated T lymphocytes and has no chemoattractant activity for neutrophils, eosinophils and resting T lymphocytes. This ABCD-1 / CCL22 chemokine binds to chemokine receptor CCR4. This chemokine may play a role in the trafficking of activated / effector T lymphocytes to inflammatory sites and other aspects of activated T-lymphocyte physiology. ABCD-1 / CCL22 is highly expressed in macrophage and in monocyte-derived dendritic cells, and thymus, and in Langerhans' cell histiocytosis and atopic dermatitis but not in dermatopathic lymphadenopathy. This chemokine is also found in lymph node, appendix, activated monocytes, resting and activated macrophages. This protein is lower expressed in lung and spleen and very weekly expressed in small intestine. Description: A DNA sequence encoding the secreeted form of human CCL22 (O00626) (Gly 25-Gln 93) was expressed, with a polyhistidine tag at the N-terminus.
Other Notes	Small volumes of CCL22 / MDC 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 CCL22 / MDC purchase	MBS2546469 is a recombinant protein targeting CCL22 / MDC. Also known as Recombinant Human CCL22 / MDC Protein (His tag). Host: E Coli.



SDS-PAGE of CCL22 / MDC recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CCL22 / MDC. It may not necessarily be applicable to this product.

NCBI GI #	22538804
NCBI GeneID	6367
NCBI Accession #	NP_002981.2
UniProt Primary Accession #	O00626
UniProt Secondary Accession #	A0N0Q6; B2R4W2
UniProt Related Accession #	O00626
GenBank Nucleotide #	NM_002990.4
NCBI Official Full Name	C-C motif chemokine 22
NCBI Official Synonym Full Names	C-C motif chemokine ligand 22
NCBI Official Symbol	CCL22
NCBI Official Synonym Symbols	MDC; ABCD-1; SCYA22; STCP-1; DC/B-CK; A-152E5.1
UniProt Protein Name	C-C motif chemokine 22
UniProt Synonym Protein Names	CC chemokine STCP-1; MDC(1-69); Macrophage-derived chemokine; Small-inducible cytokine A22; Stimulated T-cell chemotactic protein 1
UniProt Gene Name	CCL22
UniProt Synonym Gene Names	MDC; SCYA22
NCBI Protein Information	C-C motif chemokine 22
NCBI Summary for CCL22 / MDC	This antimicrobial gene is one of several Cys-Cys (CC) cytokine genes clustered on the q arm of chromosome 16. Cytokines are a family of secreted proteins involved in immunoregulatory and inflammatory processes. The CC cytokines are proteins characterized by two adjacent cysteines. The cytokine encoded by this gene displays chemotactic activity for monocytes, dendritic cells, natural killer cells and for chronically activated T lymphocytes. It also displays a mild activity for primary activated T lymphocytes and has no chemoattractant activity for neutrophils, eosinophils and resting T lymphocytes. The product of this gene binds to chemokine receptor CCR4. This chemokine may play a role in the trafficking of activated T lymphocytes to inflammatory sites and other aspects of activated T lymphocyte physiology. [provided by RefSeq, Sep 2014]

UniProt Comments for CCL22 / MDC	CCL22: May play a role in the trafficking of activated/effector T-lymphocytes to inflammatory sites and other aspects of activated T-lymphocyte physiology. Chemotactic for monocytes, dendritic cells and natural killer cells. Mild chemoattractant for primary activated T-lymphocytes and a potent chemoattractant for chronically activated T-lymphocytes but has no chemoattractant activity for neutrophils, eosinophils, and resting T-lymphocytes. Binds to CCR4. Processed forms MDC(3-69), MDC(5-69) and MDC(7-69) seem not be active. Belongs to the intercrine beta (chemokine CC) family. Protein type: Chemokine; Motility/polarity/chemotaxis; Secreted; Secreted, signal peptide Chromosomal Location of Human Ortholog: 16q21 Cellular Component: extracellular region Molecular Function: CCR chemokine receptor binding Biological Process: cell-cell signaling; chemotaxis; G-protein coupled receptor protein signaling pathway; immune response; lymphocyte chemotaxis; monocyte chemotaxis; neutrophil chemotaxis; positive regulation of GTPase activity; response to virus; signal transduction
Research Articles on CCL22 / MDC	**1.** Data suggest that Th1 (IFN-gamma-inducible protein-10 IP-10/CXCL10) and Th2 (thymus and activation regulated chemokine TARC/CCL17) and (macrophage derived chemokine MDC/CCL22) cooperatively play a role in the development of ankylosing spondylitis (AS).
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