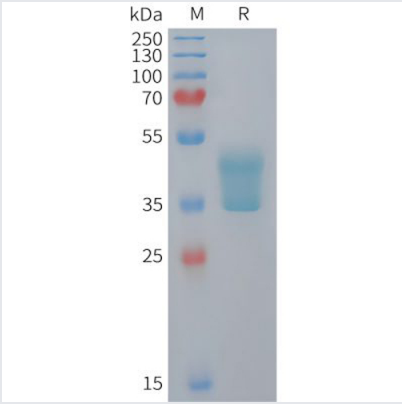
CCR2 Mouse Recombinant Protein

PRODUCT OVERVIEW

Product Name	CCR2, Recombinant Protein
Full Product Name	Mouse CCR2 Protein, hFc Tag
Product Gene Name	CCR2 recombinant protein
Product Synonym Names	Ckr2; Ccr2a; Ccr2b; Ckr2a; Ckr2b; mJe-r; Cmkbr2; Cc-ckr-2
Sequence	Mouse CCR2(Met1- Ala55) hFc(Glu99- Ala330)
Host	HEK293
Form/Format	Lyophilized from sterile PBS, pH 7.4. Normally 5%-8% trehalose is added as protectants before lyophilization.
Purity/Purification	Purified from cell culture supernatant by affinity chromatography The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Preparation and Storage	Store at -20 degree C to -80 degree C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80 degree C (Avoid repeated freezing and thawing).
Molecular Weight	42,783 Da
3D Structure	ModBase 3D Structure for P51683
Tag	C-Human Fc tag
Product Categories/Family for CCR2 recombinant protein	ECD 1182; ECD Proteins
Related Product Information for CCR2 recombinant protein	Recombinant mouse CCR2 protein with C-terminal human Fc tag Enables C-C chemokine binding activity and C-C chemokine receptor activity. Involved in several processes, including leukocyte migration; positive regulation of cell migration; and regulation of cytokine production. Acts upstream of or within several processes, including cellular defense response; monocyte chemotaxis; and neutrophil clearance. Located in external side of plasma membrane. Is expressed in several structures, including alimentary system; brain; genitourinary system; hemolymphoid system gland; and liver and biliary system. Used to study Coronavirus infectious disease and age related macular degeneration. Human ortholog (s) of this gene implicated in several diseases, including Kawasaki disease; aggressive periodontitis; coronary artery disease (multiple); glucose metabolism disease (multiple); and uveitis (multiple). Orthologous to human CCR2 (C-C motif chemokine receptor 2). [provided by Alliance of Genome Resources, Apr 2022]
Other Notes	Small volumes of CCR2 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 CCR2 purchase	MBS189734 is a recombinant protein targeting CCR2. Also known as Mouse CCR2 Protein, hFc Tag. Host: HEK293.



SDS-Page of CCR2 recombinant protein

Figure 1. Mouse CCR2 Protein, hFc Tag on SDS-PAGE under reducing condition.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CCR2. It may not necessarily be applicable to this product.

NCBI GI #	6753466
NCBI GeneID	12772
NCBI Accession #	NP_034045.1
UniProt Primary Accession #	P51683
UniProt Secondary Accession #	Q61172
UniProt Related Accession #	P51683
GenBank Nucleotide #	NM_009915.2
NCBI Official Full Name	C-C chemokine receptor type 2
NCBI Official Synonym Full Names	chemokine (C-C motif) receptor 2
NCBI Official Symbol	Ccr2
NCBI Official Synonym Symbols	Ckr2; Ccr2a; Ccr2b; Ckr2a; Ckr2b; mJe-r; Cmkbr2; Cc-ckr-2
UniProt Protein Name	C-C chemokine receptor type 2
UniProt Synonym Protein Names	JE/FIC receptor; MCP-1 receptor; CD_antigen: CD192
Protein Family	C-C chemokine receptor
UniProt Gene Name	Ccr2
UniProt Synonym Gene Names	Cmkbr2; C-C CKR-2; CC-CKR-2; CCR-2; CCR2
UniProt Entry Name	CCR2_MOUSE
NCBI Protein Information	C-C chemokine receptor type 2; C-C CHEMOKINE RECEPTOR TYPE 2 (C-C CKR-2) (CC-CKR-2) (CCR-2) (CCR2) (JE/FIC RECEPTOR) (MCP-1 RECEPTOR); JE/FIC receptor; MCP-1 receptor; MIP-1 alphaR; chemoattractant protein-1 receptor; chemokine (C-C) receptor 2

UniProt Comments for CCR2	CCR2: a seven transmembrane protein closely related to CCR1. Receptor for the MCP-1, MCP-3 and MCP-4 chemokines. Expressed at high levels in primary neutrophils and primary monocytes, and is further upregulated on neutrophil activation and during monocyte to macrophage differentiation. Transduces a signal by increasing the intracellular calcium ions level. Alternative co receptor with CD4 for HIV-1 infection. Two splice-variant isoforms have been described. Protein type: Membrane protein, integral; GPCR, family 1; Membrane protein, multi-pass; Receptor, GPCR Cellular Component: membrane; integral to plasma membrane; plasma membrane; integral to membrane; external side of plasma membrane Molecular Function: G-protein coupled receptor activity; signal transducer activity; protein binding; C-C chemokine receptor activity; cytokine binding; chemokine receptor activity Biological Process: positive regulation of T-helper 1 type immune response; signal transduction; sensory perception of pain; chemotaxis; regulation of cell migration; monocyte chemotaxis; hemopoiesis; angiogenesis; cellular homeostasis; inflammatory response; healing during inflammatory response; positive regulation of tumor necrosis factor biosynthetic process; cytokine and chemokine mediated signaling pathway; humoral immune response; G-protein coupled receptor protein signaling pathway; positive regulation of interferon-gamma production; negative regulation of angiogenesis; negative regulation of T-helper 2 type immune response; positive regulation of interleukin-2 production; cellular defense response; blood vessel remodeling; positive regulation of alpha-beta T cell proliferation; immune response; negative regulation of eosinophil degranulation; positive regulation of T cell activation; positive regulation of T-helper 1 cell differentiation; apoptotic cell clearance; positive regulation of inflammatory response
Research Articles on CCR2	**1.** data provide evidence that therapeutic levels of cranial radiation are sufficient to alter the brain's homeostatic balance and permit the influx of peripherally-derived CCR2+ macrophages
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