# CCR1 Blocking Peptide (C-Term) Blocking Peptide

## PRODUCT OVERVIEW

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| **Product Name** | CCR1, Blocking Peptide |
| **Full Product Name** | CCR1 Blocking Peptide (C-term) |
| **Product Gene Name** | CCR1 blocking peptide |
| **Product Synonym Gene Name** | CMKBR1; CMKR1; SCYAR1 |
| **Product Synonym Names** | C-C chemokine receptor type 1; C-C CKR-1; CC-CKR-1; CCR-1; CCR1; HM145; LD78 receptor; Macrophage inflammatory protein 1-alpha receptor; MIP-1alpha-R; RANTES-R; CD191; CCR1; CMKBR1; CMKR1; SCYAR1 |
| **Form/Format** | Synthetic peptide was lyophilized with 100% acetonitrile and is supplied as a powder. Reconstitute with 0.1 ml DI water for a final concentration of 1 mg/ml. |
| **Specificity** | The synthetic peptide sequence is selected from aa 343-355 of HUMAN CCR1 |
| **Preparation and Storage** | Maintain refrigerated at 2-8 degree C for up to 6 months. For long term storage store at -20 degree C. |
| **Antibody/Peptide Pairs** | CCR1 peptide (MBS9229955) is used for blocking the activity of CCR1 antibody (MBS9209125) |
| **Molecular Weight** | 41,173 Da |
| **OMIM** | 601159 |
| **Cellular Location** | Cell membrane; Multi-pass membrane protein |
| **Tissue Location** | Widely expressed in different hematopoietic cells |
| **Related Product Information for CCR1 blocking peptide** | Receptor for a C-C type chemokine. Binds to MIP-1-alpha, MIP-1-delta, RANTES, and MCP-3 and, less efficiently, to MIP-1- beta or MCP-1 and subsequently transduces a signal by increasing the intracellular calcium ions level. Responsible for affecting stem cell proliferation. |
| **Other Notes** | Small volumes of CCR1 blocking peptide 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 CCR1 purchase** | MBS9229955 is a blocking peptide targeting CCR1. Also known as CCR1 Blocking Peptide (C-term). |

## ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for CCR1. It may not necessarily be applicable to this product.

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| **NCBI GI #** | 416802 |
| **NCBI GeneID** | 1230 |
| **NCBI Accession #** | P32246.1 |
| **UniProt Primary Accession #** | P32246 |
| **UniProt Secondary Accession #** | Q86VA9 |
| **UniProt Related Accession #** | P32246 |
| **NCBI Official Full Name** | C-C chemokine receptor type 1 |
| **NCBI Official Synonym Full Names** | C-C motif chemokine receptor 1 |
| **NCBI Official Symbol** | CCR1 |

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| **NCBI Official Synonym Symbols** | CKR1; CD191; CKR-1; HM145; CMKBR1; MIP1aR; SCYAR1 |
| **UniProt Protein Name** | C-C chemokine receptor type 1 |
| **UniProt Synonym Protein Names** | HM145; LD78 receptor; Macrophage inflammatory protein 1-alpha receptor; MIP-1alpha-R; RANTES-R; CD_antigen: CD191 |
| **Protein Family** | C-C chemokine receptor |
| **UniProt Gene Name** | CCR1 |
| **UniProt Synonym Gene Names** | CMKBR1; CMKR1; SCYAR1; C-C CKR-1; CC-CKR-1; CCR-1; CCR1; MIP-1alpha-R |
| **UniProt Entry Name** | CCR1_HUMAN |
| **NCBI Protein Information** | C-C chemokine receptor type 1 |
| **NCBI Summary for CCR1** | This gene encodes a member of the beta chemokine receptor family, which is predicted to be a seven transmembrane protein similar to G protein-coupled receptors. The ligands of this receptor include macrophage inflammatory protein 1 alpha (MIP-1 alpha), regulated on activation normal T expressed and secreted protein (RANTES), monocyte chemoattractant protein 3 (MCP-3), and myeloid progenitor inhibitory factor-1 (MPIF-1). Chemokines and their receptors mediated signal transduction are critical for the recruitment of effector immune cells to the site of inflammation. Knockout studies of the mouse homolog suggested the roles of this gene in host protection from inflammatory response, and susceptibility to virus and parasite. This gene and other chemokine receptor genes, including CCR2, CCRL2, CCR3, CCR5 and CCXCR1, are found to form a gene cluster on chromosome 3p. [provided by RefSeq, Jul 2008] |
| **UniProt Comments for CCR1** | CCR1: Receptor for a C-C type chemokine. Binds to MIP-1-alpha, MIP-1-delta, RANTES, and MCP-3 and, less efficiently, to MIP-1- beta or MCP-1 and subsequently transduces a signal by increasing the intracellular calcium ions level. Responsible for affecting stem cell proliferation. Belongs to the G-protein coupled receptor 1 family.<br><br>Protein type: Receptor, GPCR; Membrane protein, multi-pass; GPCR, family 1; Membrane protein, integral; Motility/polarity/chemotaxis<br><br>Chromosomal Location of Human Ortholog: 3p21<br><br>Cellular Component: external side of plasma membrane; integral to plasma membrane; plasma membrane<br><br>Molecular Function: C-C chemokine binding; C-C chemokine receptor activity; chemokine receptor activity; phosphoinositide phospholipase C activity; protein binding<br><br>Biological Process: calcium ion transport; cell adhesion; cell surface receptor linked signal transduction; cell-cell signaling; cellular calcium ion homeostasis; dendritic cell chemotaxis; elevation of cytosolic calcium ion concentration; exocytosis; G-protein signaling, coupled to cyclic nucleotide second messenger; immune response; negative regulation of bone mineralization; positive regulation of calcium ion transport; positive regulation of cell migration; positive regulation of osteoclast differentiation; response to wounding |
| **Research Articles on CCR1** | **1.** Results highlight the potential role of CCR genes in narcolepsy and support the hypothesis that patients with narcolepsy have impaired immune function. |
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