

HUMAN CCR1 PROTEIN, HFC TAG

Cat.#: 11672

Product Name: Human CCR1 Protein

Size: 10 µg, 50 µg and 100 µg

Synonyms: CD191;CKR-1;CKR1;CMKBRI;HMI45;MIP1aR;SCYAR1

Target: CCR1

UNIPROT ID: P32246

Description: Recombinant human CCR1 protein with C-terminal human Fc tag

Background: 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]

Species/Host: HEK293

Molecular Weight: The protein has a predicted molecular mass of 30.0 kDa after removal of the signal peptide. The apparent molecular mass of CCR1-hFc is approximately 35-55 kDa due to glycosylation.

Molecular Characterization: CCR1(Met1-Ala34) hFc(Glu99-Ala330)

Purity: The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

Formulation & Reconstitution: Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5% – 8% trehalose is added as protectants before lyophilization.

Storage & Shipping: Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.

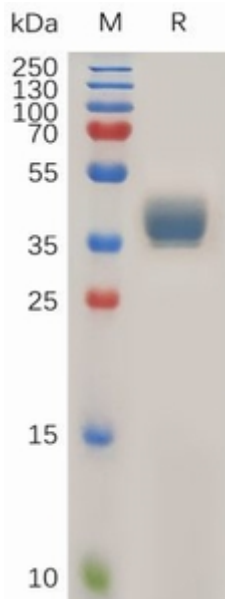


Figure 1. Human CCRI Protein, hFc Tag on SDS-PAGE under reducing condition.