

Recombinant Full Length Human CCR1 Protein, His-Tagged

Cat. No. CCR1-07HFL Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Full Length Human CCR1 Protein with N-His Tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	1-355aa
Description	<p>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.</p>
Tag	N-His
Molecular Mass	42.7 kDa

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AA Sequence

METPNTTEDYDTTTEFDYGDATPCQKVNERAFGAQLLPPLYSLVFIGLVGNILVVLV
 LVQYKRLKNMTSIYLLNLAISDLLFLFTLPFWIDYKLDKDDWVFGDAMCKILSGFYTGL
 YSEIFFIILLTIDRYLAIVHAVFALRARTVTFGVITSIIIWALAILASMPGLYFSKTQWEFT
 HHTCSLHFPHESLREWKLQALKLNLFGLVPLLVMIICYTGIIKILLRRPNEKKS KAVR
 LIFVIMIIFFLFWTPYNLTILISVFQDFLFTHECEQSRHLDLAVQVTEVIAYTHCCVNPVI
 YAFVGERFRKYLRQLFHRRVAVHLVKWLPFLSVDRLERVSSTSPSTGEHEL SAGF

Purity ≥ 85% by SDS-PAGE

Storage Store it under sterile conditions at -20 to -80 centigrade. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Storage Buffer Lyophilized from PBS, 0.05% Brij78, 6% Trehalose, pH7.4.
 The volume before lyophilization is 89 µL/vial.

Reconstitution We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20/-80 centigrade. Our default final concentration of glycerol is 50%. Customers could use it as reference.

GENE INFORMATION

Gene Name CCR1 chemokine (C-C motif) receptor 1 [Homo sapiens (human)]

Official Symbol CCR1

Synonyms CCR1; chemokine (C-C motif) receptor 1; CMKBR1, SCYAR1; C-C chemokine receptor type 1; CD191; CKR 1; MIP1aR; CCR-1; CC-CKR-1; RANTES-R; C-C CKR-1; MIP-1alpha-R; LD78 receptor; RANTES receptor; macrophage inflammatory protein 1-alpha receptor; CKR1; CKR-1; HM145; CMKBR1; SCYAR1;

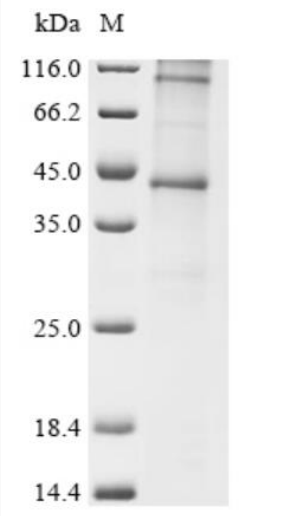
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Gene ID	1230
mRNA Refseq	NM_001295
Protein Refseq	NP_001286
MIM	601159
UniProt ID	P32246

WB



Observed band size: Monomer: 43 kDa Dimer: 86 kDa
 It is speculated that the protein forms a dimeric structure.
 (Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel. Boiling SDS-treated samples may result in membrane protein aggregation. Incubation at 37 centigrade for 10 min is an effective alternative.

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