

Recombinant Human CCR5 Protein, His-tagged

Cat. No. CCR5-644H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CCR5 Protein (Glu302-Leu352) with His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Glu302-Leu352
Description	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. This protein is expressed by T cells and macrophages, and is known to be an important co-receptor for macrophage-tropic virus, including HIV, to enter host cells. Defective alleles of this gene have been associated with the HIV infection resistance. The ligands of this receptor include monocyte chemoattractant protein 2 (MCP-2), macrophage inflammatory protein 1 alpha (MIP-1 alpha), macrophage inflammatory protein 1 beta (MIP-1 beta) and regulated on activation normal T expressed and secreted protein (RANTES). Expression of this gene was also detected in a promyeloblastic cell line, suggesting that this protein may play a role in granulocyte lineage proliferation and differentiation. This gene is located at the chemokine receptor gene cluster region. An allelic polymorphism in this gene results in both functional and non-functional alleles; the reference genome represents the functional allele. Two transcript variants encoding the same protein have been found for this gene.

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Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 9.7 kDa; Accurate Molecular Mass: 13/15 kDa
Purity	> 95%
Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	CCR5 chemokine (C-C motif) receptor 5 (gene/pseudogene) [Homo sapiens (human)]
Official Symbol	CCR5
Synonyms	CCR5; chemokine (C-C motif) receptor 5 (gene/pseudogene); chemokine (C C motif) receptor 5, CMKBR5; C-C chemokine receptor type 5; CC CKR 5; CD195; CKR 5;

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CKR5; IDDM22; chemr13; HIV-1 fusion coreceptor; chemokine receptor CCR5; C-C motif chemokine receptor 5 A159A; CCR-5; CKR-5; CCCKR5; CMKBR5; CC-CKR-5; FLJ78003;

Gene ID [1234](#)

mRNA Refseq [NM_000579](#)

Protein Refseq [NP_000570](#)

MIM [601373](#)

UniProt ID [P51681](#)

