

Recombinant Full Length Human CCR5 Protein

Cat. No. CCR5-3019HF Lot. No. (See product label)

SPECIFICATION

Product Overview Human CCR5 full-length ORF (XP_001125981.1) recombinant protein without tag.

Species Human

Source In Vitro Cell Free System

ProteinLength 526 amino acids

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. [provided by RefSeq, Jul 2015]

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 45-1 Ramsey Road, Shirley, NY 11967, USA

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|-----------------------|--|
| Form | Liquid |
| Molecular Mass | 40.5 kDa |
| AA Sequence | MDYQVSSPIYDINYYTSEPCQKINVKQIAARLLPPLYSLVFIFGFVGNMLVILILINCKRL KSMTDIYLLNLAISDLFFLLTVPFWAHYAAAQWDFGNTMCQLLTGLYFIGFFSGIFFIL LTIDRYLAVVHAVFALKARTVTFGVVTSVITWVVAVFASLPGIIFTRSQKEGLHYTCSS HFPYSQYQFWKNFQTLKIVILGLVLP LLVMVICYSGILKTLLRCRNEKKRHRVRLIFTI MIVYFLFWAPYNIVLLLNTFQEFFGLNNCSSNRLDQAMQVTETLGMTHCCINPIIYA FVGEKFRNYLLVFFQKHIAKRFCKCCSIFQQEAPERASSVYTRSTGEQEISVGL |
| Applications | Antibody Production Functional Study Compound Screening |
| Storage | Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing. |
| Storage Buffer | 25 mM Tris-HCl of pH8.0 containing 2% glycerol. |

GENE INFORMATION

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|------------------------|---|
| Gene Name | CCR5 chemokine (C-C motif) receptor 5 (gene/pseudogene) [Homo sapiens] |
| 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; 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; |

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|----------------|-----------|
| Gene ID | 1234 |
| mRNA Refseq | NM_000579 |
| Protein Refseq | NP_000570 |
| MIM | 601373 |
| UniProt ID | P51681 |

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