

CCR2 Protein-VLP, Human, Recombinant (Flag)

General Information

Synonyms:	CCR2A;CC-CKR-2;CCR2B;CKR2;PCLUD;FLJ78302;CCR-2;CKR2A;MCP-1-R;CKR2B;CD192;CMKBR2
Protein Construction:	A DNA sequence encoding the Human CCR2 (P41597-2) (Met1-Phe328,thermostabilizing mutations) was expressed with a flag tag at the N-terminus.
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P41597-2
Molecular Weight:	38.82 kDa (predicted)

QC Testing

Biological Activity:	Immobilized CCR2 Protein-VLP, Human, Recombinant (Flag) (Cat#TMPY-07138) at 5 µg/mL (100 µL/well) can bind Plozalizumab-Derived Anti-CCR2 Antibody, Human IgG1, the EC50 is 5-25 ng/mL.
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Supplied as sterile 50 mM Hepes, 150 mM NaCl, 10% Trehalose, Protease inhibitor, pH 7.2. Please contact us for any concerns or special requirements. Please refer to the specific buffer information in the hardcopy of datasheet or the lot-specific COA.

Preparation and Storage

Stability & Storage:

Samples are stable for up to twelve months from date of receipt at -70°C. Store it under sterile conditions at -70°C or lower. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Actual storage temperature shall be subject to the COA.

Shipping:

Proteins are shipped with blue ice.

Protein Background

The C-C motif chemokine receptor-2 (CCR2) is a G protein-coupled receptor (GPCR), made up of a carboxy-terminus, extracellular amino terminus, and a hydrophobic transmembrane domain consisting of 7 amino acid segments that mediates agonist-dependent calcium mobilization and inhibition of adenylyl cyclase. CCR2 is expressed on monocytes, immature dendritic cells, and T-cell subpopulations, and mediates their migration towards endogenous CCL2. CCR2 is necessary for macrophage-dependent inflammatory responses and the development of atherosclerosis. In mice, CCR2 deficiency reduced macrophage content, increased adiponectin expression, ameliorated hepatic steatosis, and improved systemic glucose homeostasis and insulin sensitivity. Resistance to HIV-1 infection or delayed progression to AIDS may be linked to CCR2 polymorphisms. Furthermore, CCR2 mRNA was highly expressed in prostate cancer (PCa) metastatic tissues compared with benign prostate tissues according to real-time RT-PCR3, suggesting that CCR2 may contribute to PCa development.

Inhibitor · Natural Compounds · Compound Libraries · Recombinant Proteins

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