

CCR8 Protein, Human, Recombinant (mFc)

General Information

Synonyms:	GPR-CY6;CY6;CKRL1;CMKBRL2;TER-1;CDw198;CCR-8;CCR8;CKR-L1;CD198;CMKBR8;ChemR1;TER1;GPRCY6
Protein Construction:	Met1-Lys35
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P51685-1
Molecular Weight:	30.25 kDa (predicted). Due to glycosylation, the protein migrates to 40-50 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Human CCR8, mFc Tag at 0.5µg/ml (100µl/well) on the plate. Dose response curve for Anti-CCR8 Antibody, hFc Tag with the EC50 of 11.1ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

CC chemokine receptor (CCR) 8 (previously called CKR-L1 or TER1 and designated CD198), which is expressed on Th2 cells and eosinophils, has been implicated in allergic diseases. CCR8 may regulate monocyte chemotaxis and thymic cell line apoptosis and is alternative coreceptor with CD4 for HIV-1 infection.

Reference

Berenguer J, et al. Glycosylated extracellular vesicles released by glioblastoma cells are decorated by CCL18 allowing for cellular uptake via chemokine receptor CCR8. J Extracell Vesicles. 2018 Mar 13;7(1):1446660.

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