

## CCL5 Protein, Human, Recombinant (His & Avi), Biotinylated

### General Information

Synonyms:	RANTES;SIS- $\delta$ ;D17S136E;TCP228;eoCP;SIS-delta;SCYA5;CCL5;SISd;MuRantes
Protein Construction:	Ser24-Ser91
Species:	Human
Expression Host:	E. coli
Accession:	P13501
Molecular Weight:	10.89 kDa (predicted) same as Tris-Bis PAGE result.

### QC Testing

Biological Activity:	Immobilized Anti-CCL5 Antibody, hFc Tag at 1 $\mu$ g/ml (100 $\mu$ l/well) on the plate. Dose response curve for Biotinylated Human CCL5, His Tag with the EC50 of 32.1ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE
Endotoxin:	< 1.0 EU/ $\mu$ g of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 $\mu$ m filter, containing PBS, 0.3%SKL (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  $\mu$ g/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

The CCR5 and the CCL5 ligand have been detected in some hematological malignancies, lymphomas, and a great number of solid tumors, but extensive studies on the role of the CCL5/CCR axis were performed only in a limited number of cancers.

Reference

Aldinucci D, Colombatti A. The inflammatory chemokine CCL5 and cancer progression. Mediators Inflamm. 2014; 2014:292376. doi: 10.1155/2014/292376. Epub 2014 Jan 2. PMID: 24523569; PMCID: PMC3910068.

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