



Synonym

6Ckine, Beta-chemokine exodus-2, Secondary lymphoid-tissue chemokine, C-C motif chemokine 21, SCYA21, Small-inducible cytokine A21, SCL

Source

Human CCL21 Protein, His Tag(CC1-H55H3) is expressed from Baculovirus-Insect cells. It contains AA Ser 24 - Pro 134 (Accession # [O00585](#)).

Predicted N-terminus: Ser 24

Molecular Characterization

CCL21(Ser 24 - Pro 134)
O00585 Poly-his

This protein carries a polyhistidine tag at the C-terminus.

The protein has a calculated MW of 14.1 kDa. The protein migrates as 17-19 kDa when calibrated against [Star Ribbon Pre-stained Protein Marker](#) under reducing (R) condition (SDS-PAGE) due to glycosylation.

Endotoxin

Less than 0.1 EU per µg by the LAL method.

Purity

>90% as determined by SDS-PAGE.

Formulation

Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

Reconstitution

Please see Certificate of Analysis for specific instructions.

For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.

Storage

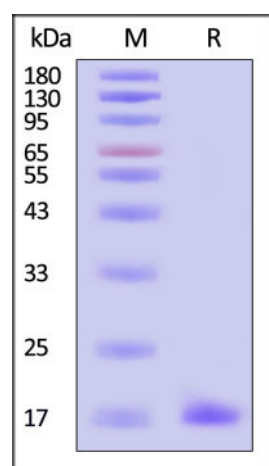
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE

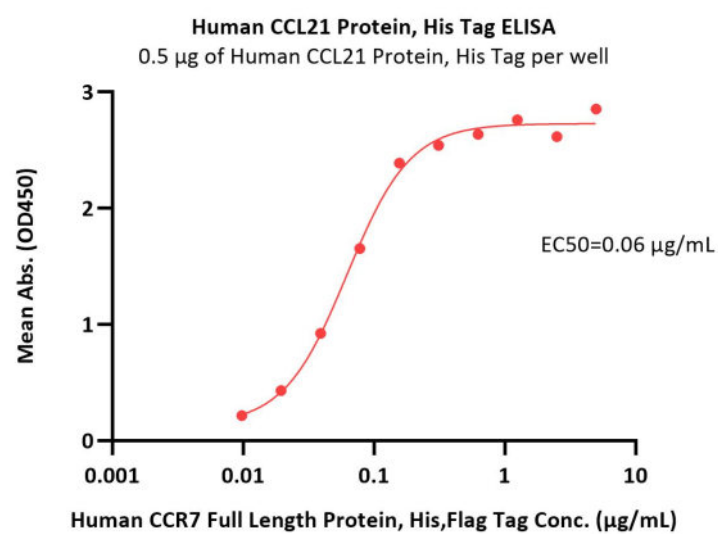


Human CCL21 Protein, His Tag on SDS-PAGE under reducing (R) condition. The gel was stained with Coomassie Blue. The purity of the protein is greater than 90% (With [Star Ribbon Pre-stained Protein Marker](#)).

Bioactivity-ELISA

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Immobilized Human CCL21 Protein, His Tag (Cat. No. CC1-H55H3) at 5 µg/mL (100 µL/well) can bind Human CCR7 Full Length Protein, His,Flag Tag (Cat. No. CC7-H52D3) with a linear range of 0.01-0.313 µg/mL (QC tested).

Background

CC chemokine 21 (CCL21), also known as secondary lymphoidorgan chemokine (SLC), is a ligand for the chemokine receptor CCR7. CCL19 and CCL21 are the only ligands for CCR7, which is expressed by various subsets of immune cells. CCL19 and CCL21 function to recruit CCR7 expressing antigen presenting cells, like dendritic cells and naive T-cells, to the lymph nodes. CCL21 seems to be the critical CCR7 ligand regulating dendritic cell homeostasis and function. CCL21 has an unusual extended C-terminal tail for a chemokine. Only one gene exists for this chemokine in human beings, whereas mice have two. CCL21 Inhibit hemopoiesis and stimulates chemotaxis. Chemotactic in vitro for thymocytes and activated T-cells, but not for B-cells, macrophages, or neutrophils. Shows preferential activity towards naive T-cells.

Clinical and Translational Updates

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