

## Active Recombinant Human CCL21 protein, His-tagged

**Cat. No.** CCL21-10969H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
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| <b>Product Overview</b> | Human CCL21 Protein, His Tag is expressed from Baculovirus-Insect cells. It contains AA Ser 24-Pro 134 (Accession # O00585). This protein carries a polyhistidine tag at the C-terminus. Predicted N-terminus: Ser 24                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Source</b>           | Insect Cells                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>ProteinLength</b>    | 24-134 aa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Description</b>      | CC chemokine 21 (CCL21), also known as secondary lymphoid organ 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. |
| <b>Form</b>             | Lyophilized from 0.22 µm filtered solution in PBS, pH7.4 with trehalose as protectant.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Bio-activity</b>     | Immobilized Human CCL21 Protein, His Tag at 5 µg/mL (100 µL/well) can bind Human CCR7 Full Length Protein, His, Flag Tag with a linear range of 0.01-0.313                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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|                       |                                                                                                                                                                                                                                                                                                                              |
|-----------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       | µg/mL.                                                                                                                                                                                                                                                                                                                       |
| <b>Molecular Mass</b> | 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.                                                                                                                  |
| <b>Endotoxin</b>      | Less than 0.1 EU/µg by the LAL method/rFC method.                                                                                                                                                                                                                                                                            |
| <b>Purity</b>         | >90% as determined by SDS-PAGE.                                                                                                                                                                                                                                                                                              |
| <b>Storage</b>        | This product is stable after storage at: -20 to -70 centigrade for 12 months in lyophilized state; -70 centigrade for 3 months under sterile conditions after reconstitution. For long term storage, the product should be stored at lyophilized state at -20 centigrade or lower. Please avoid repeated freeze-thaw cycles. |
| <b>Reconstitution</b> | It is recommended that sterile water be added to the vial to prepare a stock solution of 0.2 µg/µL. Centrifuge the vial at 4 centigrade before opening to recover the entire contents.                                                                                                                                       |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | CCL21 chemokine (C-C motif) ligand 21 [ Homo sapiens (human) ]                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Official Symbol</b> | CCL21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Synonyms</b>        | CCL21; chemokine (C-C motif) ligand 21; SCYA21, small inducible cytokine subfamily A (Cys Cys), member 21; C-C motif chemokine 21; 6Ckine; beta chemokine exodus 2; CKb9; ECL; Efficient Chemoattractant for Lymphocytes; exodus 2; secondary lymphoid tissue chemokine; SLC; TCA4; exodus-2; beta chemokine exodus-2; beta-chemokine exodus-2; small-inducible cytokine A21; secondary lymphoid-tissue chemokine; small inducible cytokine subfamily A (Cys-Cys), member 21; SCYA21; |

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|----------------|-----------|
| MGC34555;      |           |
| Gene ID        | 6366      |
| mRNA Refseq    | NM_002989 |
| Protein Refseq | NP_002980 |
| MIM            | 602737    |
| UniProt ID     | O00585    |

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