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Recombinant Human CCL21 Protein

Catalog No.: RP01402 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Human	6366	O00585

Tags
No tag

Synonyms
CCL21;6Ckine;CKb9;ECL;SCYA21;SLC;TCA4

Product Information

Source	Purification
E. coli	≥ 85 % as determined by SDS-PAGE.

Calculated MW	Observed MW
12.25 kDa	16-17 kDa

Endotoxin
Please contact us for more information.

Formulation
Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4.

Reconstitution
Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

Chemokines are a family of small chemotactic cytokines, or proteins secreted by cells. Chemokines share the same structure similarities such as small size, and the presence of four cysteine residues in conserved locations in order to form their 3-dimensional shape. Some of the chemokines are considered pro-inflammatory which can be induced to recruit cells of the immune system to a site of infection during an immune response, while others are considered homeostatic and are implied in controlling the migration of cells during normal processes of tissue maintenance and development. There are four members of the chemokine family: C-C kemokines, C kemokines, CXC kemokines and CX3C kemokines. The C-C kemokines have two cysteines nearby the amino terminus. There have been at least 27 distinct members of this subgroup reported for mammals, called C-C chemokine ligands-1 to 28. Chemokine ligand 21(CCL21), also known as 6Ckine, exodus-2, and secondary lymphoid-tissue chemokine(SLC), is a small cytokine belonging to the C-C chemokine family. CCL21 takes its name 6Ckine for its consititutively six conserved cysteine residues but not four cysteines typical to chemokines. CCL21 has function in ininducing vigorous calcium migrations and chemotactic responses.

Basic Information

Description
Recombinant Human CCL21 Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Ser24-Pro134) of human CCL21/6Ckine (Accession #NP_002980.1) fused with no additional amino acid.

Bio-Activity

Shipping
The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ for up to 1 week.
Avoid repeated freeze/thaw cycles.

Operational Notes
For your safety and health, please wear a lab coat and disposable gloves for handling.

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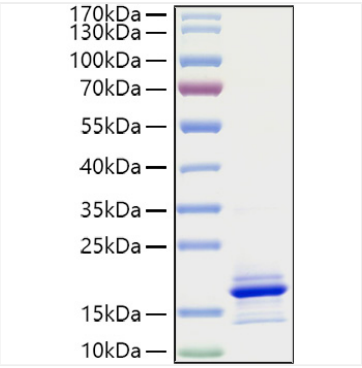
Validation Data



Recombinant Human CCL21 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.

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