

Bioactive

Full-Length

CCL21 (Human) Recombinant Protein

Catalog # P3606

Size 20 ug

Specification

Product Description	Human CCL21 (O00585, 1 a.a. - 134 a.a.) full-length recombinant protein. expressed in <i>Escherichia coli</i> .
Sequence	MAQSLALSLLILVLAFGIPRTQGS DGG AQCCLKYSQRKIPAKVVRSYRKQEPSLGCSIPAILFLPR KRSQAELCADPKELWVQQLMQHLDKTPSPQKPAQGCRKDRGASKTGKKGKGSGCKRTERS QTPKGP
Host	Escherichia coli
Theoretical MW (kDa)	12
Form	Lyophilized
Preparation Method	<i>Escherichia coli</i> expression system
Purification	Ion exchange column and HPLC reverse phase column
Purity	> 90% by SDS-PAGE and HPLC
Endotoxin Level	< 0.1 ng/ug (1 EU/ug)
Activity	Determined by the ability to chemoattract total lymphocyte population using a concentration range of 10.0-100.0 ng/mL.
Storage Buffer	Lyophilized from 2.5% glycine, 0.5% sucrose, 0.01% Tween 80, 5 mM Glutamic acid, pH 4.5
Storage Instruction	Store at -20°C on dry atmosphere for 2 years. After reconstitution with deionized water, store at 4°C for 1 month or store at -20°C for 6 months. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study

- SDS-PAGE

Gene Info — CCL21

Entrez GeneID	6366
Protein Accession#	O00585
Gene Name	CCL21
Gene Alias	6Ckine, CKb9, ECL, MGC34555, SCYA21, SLC, TCA4
Gene Description	chemokine (C-C motif) ligand 21
Omim ID	602737
Gene Ontology	Hyperlink
Gene Summary	This gene is one of several CC cytokine genes clustered on the p-arm of chromosome 9. Cytokines are a family of secreted proteins involved in immunoregulatory and inflammatory processes. The CC cytokines are proteins characterized by two adjacent cysteines. Similar to other chemokines the protein encoded by this gene inhibits hemopoiesis and stimulates chemotaxis. This protein is chemotactic in vitro for thymocytes and activated T cells, but not for B cells, macrophages, or neutrophils. The cytokine encoded by this gene may also play a role in mediating homing of lymphocytes to secondary lymphoid organs. It is a high affinity functional ligand for chemokine receptor 7 (CCR7) that is expressed on T and B lymphocytes and a known receptor for another member of the cytokine family (small inducible cytokine A19). [provided by RefSeq]
Other Designations	Efficient Chemoattractant for Lymphocytes OTTHUMP00000000526 OTTHUMP00000000527 OTTHUMP000000021304 beta chemokine exodus-2 exodus-2 secondary lymphoid tissue chemokine small inducible cytokine A21 small inducible cytokine subfamily A (Cys-Cys), member 21

Pathway

- [Chemokine signaling pathway](#)
- [Cytokine-cytokine receptor interaction](#)

Disease

- [Arthritis](#)
- [Autoimmune Diseases](#)

- [Cardiovascular Diseases](#)
- [Diabetes Mellitus](#)
- [Disease Progression](#)
- [Endometriosis](#)
- [Genetic Predisposition to Disease](#)
- [Inflammation](#)
- [Wegener Granulomatosis](#)