Bioactive

CCL21 (Human) Recombinant Protein

Catalog # P7219 Size 20 ug

Specification

Product Description	Human CCL21 (O00585, 24 a.a. - 134 a.a.) partial recombinant protein expressed in *Escherichia coli*.
Sequence	SDGGAQDCCLKYSQRKIPAKVVRSYRKQEPSLGCSIPAILFLPRKRSQAELCADPKELWVQQLM QHLDKTPSPQKPAQGCRKDRGASKTGKKGKGSKGCKRTERSQTPKGP
Host	Escherichia coli
Theoretical MW (kDa)	12.2
Form	Lyophilized
Preparation Method	*Escherichia coli* expression system
Purity	> 97% by SDS-PAGE
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	The biological activity determined by a chemotaxis bioassay using human lymphocytes is in a concentration range of 10.0 - 100.0 ng/ml.
Storage Buffer	Lyophilized from sterile distilled Water up to 0.1 - 1.0 mg/ml
Storage Instruction	Store at 4°C to 8°C for 1 week. For long term storage store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.

Applications

- Functional Study
- SDS-PAGE

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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|OTTHUMP00000021304|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

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- Disease Progression
- Endometriosis
- Genetic Predisposition to Disease
- Inflammation
- Wegener Granulomatosis

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