

Recombinant Human Chemokine (C-C motif) Ligand 21

Cat. No. CCL21-341H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human CCL21 is a single, non-glycosylated polypeptide chain containing 111 amino acids. CCL21 is expressed in E. coli, MW 12.2 kDa.
Species	Human
Source	Human
Description	Chemokine (C-C motif) ligand 21 (CCL21) is a small cytokine belonging to the CC chemokine family. This chemokine is also known as 6Ckine (because it has six conserved cysteine residues instead of the four cysteines typical to chemokines), exodus-2, and secondary lymphoid-tissue chemokine (SLC). The gene for CCL21 is located on human chromosome 9. CCL21 elicits its effects by binding to a cell surface chemokine receptor known as CCR7.
Form	Lyophilized from a sterile filtered solution in 20 mM PB, pH 7.4 + 150 mM NaCl.
Purity	> 97% as determined by HPLC and SDS-PAGE analyses.
Sequence	SDGGAQDCCLKYSQRKIPAK VVRSYRKQEP SLGCSIPAIL FLPRKRSQAE LCADPKELWV QQLMQHLDKT PSPQKPAQGCRKDRGASKTG KKGKGSKGCR KTERSQTPKG P
Molecular Weight	12.2 kDa
Biological Activity	Calculated by the ability to chemoattract lymphocytes using a concentration of 10.0-

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

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	100.0ng/ml.
Endotoxin Level	< 0.1ng/g Exodus 2
Reconstitution	Centrifuge vial prior to opening. Add sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed. Further dilutions should be made in appropriate buffered solutions.
Storage	Stable at 2-8°C, but best kept desiccated -20°C. Upon reconstitution, stable for up to 1 week at 2-8°C. For longer term, store in working aliquots below -20°C. Avoid repeated freeze/thaw cycles.
Official Symbol	CCL21

GENE INFORMATION

Gene Name	CCL21 chemokine (C-C motif) ligand 21 [Homo sapiens]
Synonyms	CCL21; chemokine (C-C motif) ligand 21; ECL; SLC; CKb9; TCA4; 6CKine; SCYA21; MGC34555; C-C motif chemokine 21; exodus-2; OTTHUMP00000021303; OTTHUMP00000021304; beta chemokine exodus-2; beta-chemokine exodus-2; small-inducible cytokine A21; secondary lymphoid tissue chemokine; secondary lymphoid-tissue chemokine; Efficient Chemoattractant for Lymphocytes; small inducible cytokine subfamily A (Cys-Cys), member 21
Gene ID	6366
mRNA Refseq	NM_002989

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Protein Refseq	NP_002980
MIM	602737
UniProt ID	O00585
Chromosome Location	9p13
Pathway	Chemokinereceptors bind chemokines; Chemokine signaling pathway; Class A/1(Rhodopsin-like receptors); Cytokine-cytokine receptor interaction; G alpha(i) signalling events; GPCR downstream signaling; GPCR ligand binding;Peptide ligand-binding receptors; Signaling by GPCR
Function	CCR7chemokine receptor binding; chemokine activity

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