# Recombinant Human Chemokine (C-C motif) Ligand 21

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

## SPECIFICATION

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| **Product Overview** | Recombinant human CCL21is 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-Cmotif) ligand 21 (CCL21) is a small cytokine belonging to the CC chemokinefamily. This chemokine is also known as 6Ckine (because it has six conservedcysteine residues instead of the four cysteines typical to chemokines),exodus-2, and secondary lymphoid-tissue chemokine (SLC). The gene for CCL21is located on human chromosome 9. CCL21 elicits its effects by binding to acell surface chemokine receptor known as CCR7. |
| **Form** | Lyophilizedfrom a sterile filtered solution in 20 mM PB, pH 7.4 + 150 mM NaCl. |
| **Purity** | > 97% asdetermined by HPLC and SDS-PAGE analyses. |
| **Sequence** | SDGGAQDCCLKYSQRKIPAK VVRSYRKQEP SLGCSIPAIL FLPRKRSQAE LCADPKELWV QQLMQHLDKT PSPQKPAQGCRKDRGASKTG KKGKGSKGCR KTERSQTPKG P |
| **Molecular Weight** | 12.2 kDa |
| **Biological Activity** | Calculatedby the ability to chemoattract lymphocytes using a concentration of10.0- |

Tel: 1-631-559-9269 1-516-512-3133
Email: info@creative-biomart.com Fax: 1-631-938-8127
45-1 Ramsey Road, Shirley, NY 11967, USA

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| | 100.0ng/ml. |
| **Endotoxin Level** | < 0.1ng/μg Exodus 2 |
| **Reconstitution** | Centrifugevial prior to opening. Add sterile distilled water or aqueous buffer containing0.1% BSA to a concentration of 0.1-1.0 mg/mL. Please note that the additionof any carrier protein into this product may produce unwanted endotoxin. Thisdepends upon the particular application employed. Further dilutions should bemade in appropriate buffered solutions. |
| **Storage** | Stableat 2-8°C, but best kept desiccated -20°C. Upon reconstitution, stable for upto 1 week at 2-8°C. For longer term, store in working aliquots below -20°C. Avoidrepeated freeze/thaw cycles. |
| **OfficialSymbol** | CCL21 |

## GENE INFORMATION

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| **Gene Name** | CCL21chemokine (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 lymphoidtissue chemokine; secondary lymphoid-tissue chemokine; EfficientChemoattractant 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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