

## Recombinant Human CCL1 protein

**Cat. No.** CCL1-605H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant Human CCL1 protein was expressed in Escherichia coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>ProteinLength</b>    | 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Description</b>      | Chemokine (C-C motif) ligand 1 (CCL1) belongs to a family inflammatory cytokines and also known as chemokines. It is a small glycoprotein secreted by activated T cells with a molecular weight of approximately 8.5 kDa. CCL1 attracts monocytes, NK cells, and immature B cells and dendritic cells by interacting with a cell surface chemokine receptor called CCR8. Human CCL1 has been assumed to be a homologue of the mouse TCA3. While the two proteins share only approximately 42 % amino acid sequence identity, both chemokines contain an extra pair of cysteine residues not found in most other chemokines. |
| <b>Form</b>             | Lyophilized from a 0.2µm filtered concentrated solution in 20 mM PB, pH 7.4, 100 mM NaCl.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Bio-activity</b>     | Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human T-lymphocytes is in a concentration range of 10-100 ng/ml.                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Molecular Mass</b>   | Approximately 8.6 kDa, a single, non-glycosylated polypeptide chain containing 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

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|                       |                                                                                                                                                                                                                                                                                                                                                                                             |
|-----------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|                       | amino acids.                                                                                                                                                                                                                                                                                                                                                                                |
| <b>AA Sequence</b>    | SKSMQVPFSRCCFSFAEQEIPRLAILCYRNTSSICSNEGLIFKLKRGKEACALDTVGV<br>VQRHRKMLRHCPSKRK                                                                                                                                                                                                                                                                                                              |
| <b>Endotoxin</b>      | Less than 1 EU/μg of rHuI-309/CCL1 as determined by LAL method.                                                                                                                                                                                                                                                                                                                             |
| <b>Purity</b>         | >97% by SDS-PAGE and HPLC analysis.                                                                                                                                                                                                                                                                                                                                                         |
| <b>Storage</b>        | Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.                                                                                             |
| <b>Reconstitution</b> | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤-20 centigrade. Further dilutions should be made in appropriate buffered solutions. |

## GENE INFORMATION

|                        |                                                                                                                                                                                                                                                                                                                                                                                                             |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | CCL1                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Official Symbol</b> | CCL1                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Synonyms</b>        | CCL1; chemokine (C-C motif) ligand 1; SCYA1, small inducible cytokine A1 (I 309, homologous to mouse Tca 3); C-C motif chemokine 1; I 309; inflammatory cytokine I 309; P500; SISE; T lymphocyte secreted protein I 309; TCA3; inflammatory cytokine I-309; small-inducible cytokine A1; T lymphocyte-secreted protein I-309; small inducible cytokine A1 (I-309, homologous to mouse Tca-3); I-309; SCYA1; |

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|----------------|-----------|
| Gene ID        | 6346      |
| mRNA Refseq    | NM_002981 |
| Protein Refseq | NP_002972 |
| MIM            | 182281    |
| UniProt ID     | P22362    |

**SDS-PAGE of CCL1-605H**

