

## Recombinant Human CCL1, His-tagged

**Cat. No.** CCL1-168H    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Recombinant human CCL1 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer.                                                                                                                                                                                                         |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>ProteinLength</b>    | 24-96 aa                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | CCL1 (chemokine C-C motif ligand 1) is a small glycoprotein secreted by activated T cells that belongs to a family inflammatory cytokines known as chemokines. CCL1 attracts monocytes, NK cells, and immature B cells and dendritic cells by interacting with a cell surface chemokine receptor called CCR8. Unlike the other members of the C-C family, CCL1 does not induce chemotaxis in natural killer (NK) cells. |
| <b>Form</b>             | Liquid. In 20mM Tris-HCl buffer (pH 7.5) containing 2mM DTT, 10% glycerol, 50mM NaCl.                                                                                                                                                                                                                                                                                                                                   |
| <b>Molecular Weight</b> | 10.8 kDa (94aa) confirmed by MALDI-TOF.                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Purity</b>           | > 85% by SDS - PAGE.                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Concentration</b>    | 0.5 mg/ml (determined by Bradford assay).                                                                                                                                                                                                                                                                                                                                                                               |

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|                                 |                                                                                                                                                       |
|---------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Endotoxin Level</b>          | < 1.0 EU per 1 µg of protein (determined by LAL method).                                                                                              |
| <b>Sequences Of Amino Acids</b> | MGSSHHHHHH SSGLVPRGSH MKSMQVPFSR CCFSFAEQEI PLRAILCYRN<br>TSSICSNEGL IFKLKRGKEA CALDTVGWVQ RHRKMLRHCP SKRK.                                           |
| <b>Storage</b>                  | Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles. |
| <b>Pathways</b>                 | Cytokine-cytokine receptor interaction                                                                                                                |

## GENE INFORMATION

|                            |                                                                                                                                                                                                                                     |
|----------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>           | CCL1 chemokine (C-C motif) ligand 1                                                                                                                                                                                                 |
| <b>Synonyms</b>            | P500; SISE; TCA3; I-309; SCYA1; small inducible cytokine A1; inflammatory cytokine I-309; T lymphocyte-secreted protein I-309; small inducible cytokine A1 (I-309, homologous to mouse Tca-3); chemokine (C-C motif) ligand 1; CCL1 |
| <b>Gene ID</b>             | 6346                                                                                                                                                                                                                                |
| <b>mRNA Refseq</b>         | NM_002981                                                                                                                                                                                                                           |
| <b>Protein Refseq</b>      | NP_002972                                                                                                                                                                                                                           |
| <b>MIM</b>                 | 182281                                                                                                                                                                                                                              |
| <b>UniProt ID</b>          | P22362                                                                                                                                                                                                                              |
| <b>Chromosome Location</b> | 17q12                                                                                                                                                                                                                               |

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**Function**

chemokine activity

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