

Recombinant Human Chemokine (C-C Motif) Ligand 1

Cat. No. CCL1-29H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human I-309 produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 74 amino acids and having a molecular mass of 8504 Dalton. The I-309 is purified by proprietary chromatographic techniques.
Species	Human
Source	E.coli
Description	Chemokine (C-C motif) ligand 1 (CCL1) 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. This chemokine resides in a large cluster of CC chemokines on human chromosome 17.
Amino Acid Sequence	The sequence of the first five N-terminal amino acids was determined and was found to be Ser-Lys-Ser-Met-Gln.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Purity	Greater than 99.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Formulation	The protein was lyophilized with no additives.
Solubility	It is recommended to reconstitute the lyophilized I-309 in sterile 18MΩ-cm H ₂ O not

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less than 100g/ml, which can then be further diluted to other aqueous solutions.

Biological Activity

The Biological activity is calculated by its ability to chemoattract human T cells at 10.0-100.0 ng/ml.

Storage

Lyophilized I-309 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CCL1 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

GENE INFORMATION

Gene Name

[CCL1 chemokine \(C-C motif\) ligand 1 \[Homo sapiens \]](#)

Synonyms

CCL1; chemokine (C-C motif) ligand 1; C-C motif chemokine 1; I-309; inflammatory cytokine I-309; P500; SISE; SCYA1; small inducible cytokine A1 (I-309, homologous to mouse Tca-3); Small-inducible cytokine A1; T lymphocyte-secreted protein I-309; TCA3

Gene ID

[6346](#)

mRNA Refseq

[NM_002981](#)

Protein Refseq

[NP_002972](#)

MIM

[182281](#)

UniProt ID

[P22362](#)

**Chromosome
Location**

17q12

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Pathway	Chemokine signaling pathway; Cytokine-cytokine receptor interaction
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Function	chemokine activity; protein binding
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