



I-309 (CCL1), human recombinant (rHul-309)

Catalog No: 94852
Lot No: XXXXX
Source: *E. coli*
Synonyms: Small inducible cytokine A1, CCL1, T lymphocyte-secreted protein I-309, chemokine (C-C motif) ligand 1, P500, SISE, TCA3, I-309, SCYA1

Background

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.

Description

I-309 human recombinant produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 74 amino acids and having a molecular mass of 8504 Dalton. I-309 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

The CCL1 protein was lyophilized with no additives.

Solubility

It is recommended to reconstitute the lyophilized I-309 in sterile 18 MΩ-cm H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability

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.

Purity

Greater than 99.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

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.

Activity

The Biological activity is calculated by its ability to chemoattract human T cells at 10 - 100 ng/ml corresponding to a specific activity of 10,000 - 100,000 IU/mg.

Usage

This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.

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