

RayBiotech, Inc.

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Certificate of Analysis and Data Sheet

Recombinant Human I-309 (CCL1)

Catalog No.	Source:
228-10809	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.

Introduction:

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. The 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 18M Ω -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.



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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.

Biological Activity

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