

Recombinant Human I-309 (CCL1)

Synonyms: Small inducible cytokine A1, T lymphocyte-secreted protein I-309, chemokine (C-C motif) ligand 1, P500, SISE, TCA3, I-309, SCYA1.

Introduction: I-309 is a small glycoprotein secreted by activated T cells that belongs to a family inflammatory cytokines known as chemokines. I-309 attracts monocytes, NK cells and immature B cells and dendritic cells by interacting with a cell surface chemokine receptor called CCR8. I-309 resides in a large cluster of CC chemokines on human chromosome 17.

Description: 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 8.5 kDa. rh I-309 is purified by proprietary chromatographic techniques.

Source: *Escherichia Coli*.

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: The protein was lyophilized with no additives.
The aliquots of 1µg and 2µg contain Trehalose 5% (w/vol) for better recovery

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

Stability: Lyophilized rh I-309 although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution rh I-309 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 RP-HPLC and 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 T cells at 10 -100 ng/ml.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	2 µg	Cat.N°	11343842
<i>medium</i>	10 µg	Cat.N°	11343843

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