**DATASHEET**
Version 20181206

# I-309/CCL1, Human

**Cat. No.**: Z03273-25

**Size**: 25.0 ug

**Synonyms**: CCL1, TCA-3

**Description:**

Chemokine (C-C motif) ligand 1 (CCL1), also known as I-309, is a small glycoprotein secreted by activated T cells that belongs to the family ofchemokines. Human CCL1 has been assumed to be a homologue of mouse TCA3. While the two proteins share only approximately 42% amino acid sequence identity, both chemokines contain an extra pair of cysteine residues not found in most other chemokines. CCL1 attracts monocytes, NK cells, immature B cells and dendritic cells by interacting with the cell surface chemokine receptor CCR8. This chemokine resides in a large cluster of CC chemokines on human chromosome 17.
Recombinant Human I-309/CCL1 produced in *E.coli* is a single non-glycosylated polypeptide chain containing 74 amino acids. A fully biologically active molecule, rhI-309/CCL1has a molecular mass of 8.5 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

**Amino Acid Sequence:**

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00001 SKSMQVPFSR CCFSFAEQEI PLRAILCYRN TSSICSNEGL
00041 IFKLKRGKEA CALDTVGWVQ RHRKMLRHCP SKRK
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**Source**: *E. coli*

**Species**: Human

**Biological Activity**: The $EC_{50}$ value of human I-309/CCL on $Ca^{2+}$ mobilization assay in CHO-K1/Gα15/hCCR8 cells (human Gα15 and human CCR8 stably expressed in CHO-K1 cells) is less than 1 μg/ml.

**Molecular Weight**: 8.5 kDa, observed by reducing SDS-PAGE.

**Formulation**: Lyophilized after extensive dialysis against PBS.

**Reconstitution**: Reconstituted in $ddH_2O$ or PBS at 100 μg/ml.

**Purity**: > 95% as analyzed by SDS-PAGE.

**Endotoxin Level**: < 0.2 EU/μg, determined by LAL method.

**Storage**: Lyophilized recombinant human I-309/CCL1 remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, recombinant human I-309/CCL1 should be stable up to 1 week at 4°C or up to 2 months at -20°C.



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