

## C-C motif chemokine 1 (CCL1), Human

**Cat.no.** PK0281

**Product size:** 5ug    25ug    1mg

**Source:** E. coli

**Species:** Human

**Biological Activity:** The EC<sub>50</sub> value of human I-309/CCL on Ca<sup>2+</sup> 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<sub>2</sub>O or PBS at 100 µg/ml.

**Purity:** > 95% by SDS-PAGE and HPLC analyses.

**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.

**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 of chemokines. 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.

**Amino Acid Sequence:**

00001 SKSMQVPFSR CCFSFAEQEI PLRAILCYRN TSSICSNEGL

00041 IFKLKRGKEA CALDTVGWVQ RHRKMLRHCP SKRK

**Synonyms:** C-C motif chemokine 1, Small-inducible cytokine A1, T lymphocyte-secreted protein I-309, I309, CCL1, SCYA1

**Note:** For research use only, not for use in diagnostic procedure.