

**DATASHEET**  
Version 20181206**I-309/CCL1, Human(CHO-expressed)****Cat. No.:** Z03269-50**Size:** 50.0 ug**Synonyms:** I-309, 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 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 CHO cells is a polypeptide chain containing 73 amino acids. A fully biologically active molecule, rhI-309/CCL1 has a molecular mass of 15kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

**Amino Acid Sequence:**

00001 KSMQVPFSRC CFSFAEQEIP LRAILCYRNT SSICSNEGLI  
00041 FKLKRGKEAC ALDTVGWVQR HRKMLRHCPK KKK

**Source:** CHO**Species:** Human

**Biological Activity:** The EC<sub>50</sub> value of human I-309/CCL1 on Ca<sup>2+</sup> mobilization assay in CHO-K1/G $\alpha$ 15/hCCR8 cells (human G $\alpha$ 15 and human CCR8 stably expressed in CHO-K1 cells) is less than 1  $\mu$ g/ml.

**Molecular Weight:** 15 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  $\mu$ g/ml.

**Purity:** > 98% as analyzed by SDS-PAGE.

**Endotoxin Level:** < 0.2 EU/ $\mu$ g, 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.