

# PRODUCT DATA SHEET



Bioworld Technology, Inc.

## Recombinant I-309/CCL1, Human

Catalog Number: BK0077-25µg

Source: Escherichia coli.

Quantity: 25µg

### 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. A fully biologically active molecule, rhI-309/CCL1 has a molecular mass of 8.5 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

### Molecular Weight:

8.5 kDa, observed by reducing SDS-PAGE.

### Purity:

> 95% as analyzed by SDS-PAGE.

### Biological Activity:

The EC<sub>50</sub> value of human I-309/CCL1 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.

### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

### Formulation:

Lyophilized after extensive dialysis against PBS.

### AA Sequence:

SKSMQVPFSRCCFSFAEQEIPLRAIL-  
CYRNTSSICSNEGLIFKLRGKEA-  
CALDTVGWVQRHRKMLRHCPKSRK

### Endotoxin:

< 0.2 EU/µg, determined by LAL method.

### Reconstitution:

Reconstituted in ddH<sub>2</sub>O or PBS at 100 µg/ml.

### Storage:

Lyophilized recombinant human I-309/CCL1 remains stable up to 6 months at -80 °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.

### Usage:

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