PRODUCT DATA SHEET

Bioworld Technology,Inc.

Recombinant I-309/CCL1, Human

Catalog Number: BK0077-5μg Source: Escherichia coli. Quantity: 5μg

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.

Molecular Weight:

8.5 kDa, observed by reducing SDS-PAGE.

Purity:

> 95% as analyzed by SDS-PAGE.

Biological Activity:

The EC50 value of human I-309/CCL on Caˆ2+ 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-
CYRNTSSICSNEGLIFKLKRGKEA-
CALDTVGWVQRHRKMLRHCPSKRK

Endotoxin:

< 0.2 EU/μg, determined by LAL method.

Reconstitution:

Reconstituted in ddH2O or PBS at 100 μg/ml.

Storage:

Lyophilized recombinant human I-309/CCL1 remains stable up to 6 months at -80℃ from date of receipt. Upon reconstitution, recombinant human I-309/CCL1 should be stable up to 1 week at 4℃ or up to 2 months at -20℃.

Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. For research use only.

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