HCC-1 (CCL14) (66 amino acids), human recombinant (rHuHCC-1)

Catalog No: 97584
Lot No: XXXXX
Source: *E. coli*
Synonyms: Small inducible cytokine A14, CCL14, Chemokine CC-1/CC-3, HCC-1/HCC-3, HCC-1(1-74), NCC-2, chemokine (C-C motif) ligand 14, CC-1, CC-3, CKb1, MCIF, SY14, HCC-1, HCC-3, SCYL2, SCYA14

Background

Chemokine (C-C motif) ligand 14 (CCL14) is a small cytokine belonging to the CC chemokine family. It is also commonly known as HCC-1. It is produced as a protein precursor that is procesed to generate a mature active protein containing 74 amino acids that and is 46% identical in amino acid composition to CCL3 and CCL4. This chemokine is expressed in various tissues including spleen, bone marrow, liver, muscle, and gut. CCL13 activates monocytes, but does not induce their chemotaxis. Human CCL13 is located on chromosome 17 within a cluster of other chemokines belonging to the CC family.

Description

HCC-1 human recombinant produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 66 amino acids and having a molecular mass of 7.8 kDa. HCC-1 is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

Formulation

The CCL14 protein was lyophilized from a 0.2 µm filtered concentrated solution in 1×PBS, pH 7.4 and 5% trehalose.

Solubility

It is recommended to reconstitute the lyophilized HCC-1 in sterile 18 MΩ-cm H_2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability

Lyophilized HCC1, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CCL14 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity

Greater than 97.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

Amino Acid Sequence

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GPYHPSECCF TYTTYKIPRQ RIMDYYETNS QCSKPGIVFI TKRGHSVCTN PSDKWVQDYI KDMKEN
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Activity

The Biological activity is determined by its ability to chemoattract human monocytes using a concentration range of 5.0 - 20.0 ng/ml.

Usage

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