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HCC 1 Human (66 a.a.)

HCC-1 Human Recombinant (CCL14) (66 a.a.)
CHK0066

Product Overview

Name	HCC 1 Human (66 a.a.)

Description

HCC-1 Human Recombinant (CCL14) (66 a.a.)

Accession (Primary)	Q16627

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.

Introduction

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.

Source

Escherichia Coli.

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.

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

GPYHPSECCF TYTTYKIPRQ RIMDYYETNS QCSKPGIVFI TKRGHSVCTN PSDKWVQDYI KDMKEN.

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Biological Activity

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

Solubility

It is recommended to reconstitute the lyophilized HCC-1 in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

HCC 1 Human (66 a.a.) is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (Q16627)