



## HCC-1 (CCL14), human recombinant (rHuHCC)

**Catalog No:** 94851  
**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 processed 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 72 amino acids and having a molecular mass of 8411 Dalton. HCC-1 is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

### Formulation

The CCL14 protein was lyophilized with 20 mM PBS pH 7.4 and 150 mM NaCl.

### Solubility

It is recommended to reconstitute the lyophilized HCC-1 in sterile 18 M $\Omega$ -cm H<sub>2</sub>O not less than 100  $\mu$ g/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

TESSSRGPYH PSECCFTYTT YKIPRQRIMD YYETNSQCSK PGIVFITKRG HSVCTNPSDK WVQDYIKDMK EN

### Activity

The Biological activity is calculated by its ability to chemoattract Human monocytes at 5 - 20 ng/ml corresponding to a specific activity of 50,000 - 200,000 IU/mg.

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### Usage

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