
Product Data Sheet

Product Name: HCC 1 Human (66 a.a.)
 Cat. No.: GP21123
 Batch No.: 1

Product Data

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|---------------------|--|--------------------|-----------------------|
| Purity | >98% | Source | Escherichia Coli. |
| Physical Appearance | solid | Shipping Condition | Shipped at Room temp. |
| 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. | | |
| Amino Acid Sequence | GPYHPSECCF TYTTYKIPRQ RIMDYETNS QCSKPGIVFI TKRGHSVCTN PSDKVVQDYI KDMKEN. | | |
| Solubility | It is recommended to reconstitute the lyophilized HCC-1 in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions. | | |
| Formulation | The CCL14 protein was lyophilized from a 0.2μm filtered concentrated solution in 16 ⁻ PBS, pH 7.4 and 5% trehalose. | | |

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 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.

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.

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

Background

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 7.8kDa. The HCC-1 is purified by proprietary chromatographic techniques.

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