

Product Data Sheet

Cat # RP-1015

Recombinant Human HCC-1 (CCL14)

Size: 10 ug

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.

Usage:

This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals

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Source: *Escherichia Coli*. HCC-1 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 74 amino acids and having a molecular mass of 8411 Dalton. The HCC-1 is purified by proprietary chromatographic techniques. The CCL14 protein was lyophilized with no additives.

Applications and Suggested Dilutions: Greater than 99.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE. It is recommended to reconstitute the lyophilized HCC-1 in sterile 18MΩ-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions. Users must optimize the appropriate concentration and conditions for each assay.

Storage and 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). If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4°C for ~1 week or aliquots in suitable size and store at -20°C for long term storage.

Please prevent freeze-thaw cycles.

Biological Activity: The Biological activity is calculated by its ability to chemoattract Human monocytes at 5.0-20.0 ng/ml.

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