

Recombinant Human CCL16

CATALOG #: 4349-20 20 µg
4349-1000 1 mg

LOT #: _____

SYNONYMS: C-C motif chemokine 16, Small-inducible cytokine A16, IL-10-inducible chemokine, Chemokine LEC, Monotactin-1, Chemokine CC-4, Lymphocyte and monocyte chemoattractant, CCL-16, HCC-4, HCC4, NCC4, NCC-4, Liver Expressed Chemokine, LMC, LCC-1, LCC1, MTN-1, MTN1, SCYL4, ckb12, SCYA16, LEC, ILINCK, MGC117051.

SOURCE: *E. coli*

PURITY: > 97 % by SDS-PAGE and RP-HPLC

FORM: Lyophilized from a filtered solution containing 20 mM sodium phosphate buffer, pH 7.4 and 150 mM NaCl.

RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in sterile ddH₂O to a concentration ≥ 100 µg/ml. This solution can then be diluted into other aqueous buffers.

STORAGE CONDITIONS:

The lyophilized protein is best-stored desiccated at -20°C. Reconstituted mouse SF20 should be stored at 4°C for 2-7 days and at -20°C for future use. For long term storage it is recommended to add a carrier protein (0.1 % HSA or BSA). Avoid freeze/thaw cycles.

DESCRIPTION:

Human CCL16, is a novel CC chemokine recognized by bioinformatics. NCC-4 cDNA encodes a 120 amino acids along with a 23 amino acids signal peptide that is cleaved to generate 97 amino acid protein. HCC4 is vaguely related to other CC chemokines (< 30% homology). Among CC chemokines, CCL-16 has the largest similarity to HCC-1. 2 potential polyadenylation signals are present on the human HCC-4 gene, and as a result, 2 transcripts containing roughly 1,500 base pairs and 500 base pairs have been detected. HCC-4 is expressed weakly by some lymphocytes, including NK cells, T cells, and some T cell clones. The expression of HCC-4 in monocytes is greatly upregulated in the presence of IL-10. CCL16 shows chemotactic activity for lymphocytes and monocytes rather than to neutrophils. NCC-4 has potent myelosuppressive activity, suppresses proliferation of myeloid progenitor cells. CCL16 demonstrates chemotactic activity for monocytes and thp-1 monocytes, rather than for resting lymphocytes and neutrophils. HCC-4 induces a calcium flux in thp-1 cells that desensitized prior to the expression of rantes. CCL16 Human Recombinant produced in *E. Coli* is a non-glycosylated, Polypeptide chain containing 97 amino acids and having a molecular mass of 11.2 kDa. The CCL16 is purified by proprietary chromatographic techniques.

AMINO ACID SEQUENCE:

QPKVPEWVNTPTCCCLKYYEKVLPRLVVGYRKALNCHLPAIIFVTKRNREVCTNP
NDDWVQEYIKDPNLP LLPTRNLSTVKIITAKNGQPQLLSNQ

BIOLOGICAL ACTIVITY:

Determined by its ability to chemoattract total human monocytes using a concentration range of 10-100 ng/ml

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