

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant HCC-4/CCL16, Human(CHO-expressed)

Catalog Number: BK0219-50µg

Source: CHO

Quantity: 50µg

Description:

Human HCC 4, also named NCC 4 and Chemokine (C-C motif) ligand 16 (CCL16) is a small cytokine belonging to the CC chemokine family that is known under several pseudonyms, including Liver-expressed chemokine (LEC) and Monotactin-1 (MTN-1). It can signal through the CCR8 and CCR1 receptors, and it is chemotactic towards monocytes and lymphocytes but not neutrophils. 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 up-regulated in the presence of IL-10. HCC-4 induces a calcium flux in thp-1 cells that are desensitized prior to the expression of RANTES. Recombinant human HCC-4/CCL16 produced in CHO cells is a single non-glycosylated polypeptide chain containing 97 amino acids. A fully biologically active molecule, rhHCC-4/CCL16 has a molecular mass of 12 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Molecular Weight:

12 kDa, observed by reducing SDS-PAGE.

Purity:

> 98% as analyzed by SDS-PAGE.

Biological Activity:

The EC₅₀ value of human HCC-4/CCL16 on Ca²⁺ mobilization assay in CHO-K1/Ga15/hCCR1 cells (human Ga15 and human CCR1 stably expressed in CHO-K1 cells) is less than 1.5 µg/ml.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

QPKVPEWVNTPTSTCCLKYYEKVLPRLVVGYRK
ALNCHLPAIIFVTKRNREVCTNPNDWVQEY-
IKDPNLPLLPTRNLSTVKIITAKNGQPQLLSQ

Endotoxin:

< 0.2 EU/µg, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O or PBS at 100 µg/ml.

Storage:

Lyophilized recombinant human HCC-4/CCL16 remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, human HCC-4/CCL16 should be stable up to 1 week at 4 °C or up to 2 months at -20 °C.

Usage:

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