

DATASHEET

Version 20181206

HCC $\square$ 4/CCL16, Human(CHO-expressed)**Cat. No.:** Z03236-1**Size:** 1.0 mg**Synonyms:** HCC $\square$ 4/CCL16, Human**Description:**

Human HCC4, also named NCC4 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 $\square$ 4/CCL16 produced in CHO cells is a single non-glycosylated polypeptide chain containing 97 amino acids. A fully biologically active molecule, rhHCC $\square$ 4/CCL16 has a molecular mass of 12 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques at GenScript.

Amino Acid Sequence:

00001 QPKVPEWVNT PSTCCLKYYE KVLPRRLVVG YRKALNCHLP
00041 AIIFVTKRNR EVCTNPNDW VQEYIKDPNL PLLPTRNLST
00081 VKIITAKNGQ PQLLSNQ

Source: CHO**Species:** Human

Biological Activity: The EC₅₀ value of human HCC $\square$ 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 μ g/ml.

Molecular Weight: 12 kDa, observed by reducing SDS-PAGE.

Formulation: Lyophilized after extensive dialysis against PBS.

Reconstitution: Reconstituted in ddH₂O or PBS at 100 μ g/ml.

Purity: > 98% as analyzed by SDS-PAGE.

Endotoxin Level: < 0.2 EU/ μ g, determined by LAL method.

Storage: Lyophilized recombinant human HCC $\square$ 4/CCL16 remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, human HCC $\square$ 4/CCL16 should be stable up to 1 week at 4°C or up to 2 months at -20°C.