
Product Data Sheet

Product Name: CCL16 Human
 Cat. No.: GP21075
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
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.		
Amino Acid Sequence	QPKVPEWVNTPTSCCLKYYEKVLPRLVVGYSKALNCHLPAIFVTKRNREVCTNP NDDWVQEQYIKDPNLPPLPTRNLSTVKIITAKNGQPQLLSQ.		
Solubility	It is recommended to reconstitute the lyophilized CCL16 in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The CCL16 protein was lyophilized from a concentrated (1mg/ml) sterile solution containing 20mM PBS pH-7.4 and 0.15M sodium chloride.		

Introduction

Human CCL16, also called HCC-4, liver-expressed chemokine (LEC), and lymphocyte and monocyte chemoattractant (LMC), 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, showing less than 30% sequence identity. 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.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

Product Data Sheet

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.

Biological Activity

Determined by its ability to chemoattract total human monocytes using a concentration range of 10-100 ng/ml corresponding to a Specific Activity of 10,000-100,000IU/mg.

Stability

Lyophilized CCL16 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution CCL16 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

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.

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA