

Recombinant Human
Liver-Expressed
Chemokine/CCL16

#R00389

Size:5 µg/100 µg/500 µg

Stability & Storage

- Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.

- 1 month, 2 to 8 °C under sterile conditions after reconstitution.

- 3 months, -20 to -70 °C under sterile conditions after reconstitution.



Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

Human CCL16, also called Liver-expressed chemokine (LEC), Monotactin-1 (MTN-1), IL-10-inducible chemokine and so on, is expressed by the CCL16 gene located on the chromosome 17 in humans. The gene encodes a 120 a.a. residue precursor protein with a 23 a.a. residue predicted signal peptide that is cleaved to generate a 97 a.a. residue mature protein. The protein is secreted by the liver, thymus, spleen cells and showing chemotactic activity for lymphocytes and monocytes but it is distantly related to other CC chemokines, exhibiting less than 30 % sequence identity. CCL16 is highly induced by IL-10, IFN-γ and bacterial lipopolysaccharide in monocytes and signal through CCR1, CCR2, CCR5, and CCR8.

AA Sequence

QPKVPEWVNTPSTCCLKYYEKVLPRLVVGYSKALN
CHLPAIFVTKRNREVCTNPNDWVQEYIKDPNLP LLP

TRNLSTVKIITAKNGQPQLLSQ

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.

Product Specification

Synonyms	HCC-4, LCC-1, LMC, MTN-1, NCC-4
Accession	O15467
GeneID	6360
Species	Human
Source	Escherichia coli.
Molecular Weight	Approximately 11.2 kDa, a single non-glycosylated polypeptide chain containing 97 amino acids.
Purity	> 97 % by SDS-PAGE and HPLC analyses.
Biological Activity	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human monocytes is in a concentration range of 10-100 ng/ml.

Physical	Sterile Filtered White lyophilized
Appearance	(freeze-dried) powder.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, pH 7.4, 150 mM NaCl.
Endotoxin	Less than 1 EU/µg of rHuLEC/CCL16 as determined by LAL method.