

Recombinant Human CCL14 protein

Cat. No. CCL14-0608H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CCL14 protein (72 a.a.) was expressed in Escherichia coli.
Species	Human
Source	E.coli
ProteinLength	72
Description	Human CCL14 is belonging to the CC chemokine family. It has two isoforms, CCL14a (HCC-1) and CCL14b (HCC-3). The sequence of HCC-3 differs from HCC-1 as follow: 27-27 R→ QTGGKPKVVKIQLKLVG. CCL14 was first isolated from the hemofiltrate of human patients with chronic renal failure. CCL14 promotes chemotaxis of T lymphocytes, monocytes and eosinophils, and inhibits infection of M-tropic human immunodeficiency virus type 1 and is a ligand for CCR1, CCR3 and CCR5. CCL14 is expressed constitutively in several normal tissues: spleen, liver, skeletal and heart muscle, gut, and bone marrow, present at high concentrations in plasma.
Form	Lyophilized from a 0.2µm filtered concentrated solution in 20 mM PB, pH 7.4, 100 mM NaCl.
Bio-activity	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human monocytes is in a concentration of 5.0-20 ng/ml.
Molecular Mass	Approximately 8.4 kDa, a single non-glycosylated polypeptide chain containing 72

 Tel: 1-631-559-9269 1-516-512-3133

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	amino acids.
AA Sequence	TESSSRGPYHPSECCFTYTTYKIPRQRIMDYETNSQCSKPGIVFITKRGHSVCTNP SDKWVQDYIKDMKEN
Endotoxin	Less than 1 EU/μg of rHuHCC-1/CCL14 as determined by LAL method.
Purity	>96% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
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 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	CCL14
Official Symbol	CCL14
Synonyms	CCL14; chemokine (C-C motif) ligand 14; SCYA14, small inducible cytokine subfamily A (Cys Cys), member 14; C-C motif chemokine 14; CKb1; HCC 1; HCC 3; MCIF; NCC 2; SCYL2; chemokine CC-3; new CC chemokine 2; chemokine CC-1/CC-3; hemofiltrate CC chemokine 1; small-inducible cytokine A14; small inducible cytokine subfamily A (Cys-Cys), member 14; CC-1; CC-3; CKB1; NCC2; SY14; HCC-1; HCC-

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3; NCC-2; SCYA14; HCC-1(1-74); HCC-1/HCC-3; FLJ16015;

Gene ID	6358
mRNA Refseq	NM_032962
Protein Refseq	NP_116738
MIM	601392
UniProt ID	Q16627

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