

## Recombinant Human Hemofiltrate CC Chemokine-1, 66a.a./CCL14

### Information

<b>Gene ID</b>	6358
<b>Accession #</b>	Q16627
<b>Alternate Names</b>	C-C Motif Chemokine 14, HCC-3, NCC-2, Small-inducible Cytokine A14
<b>Source</b>	Escherichia coli.
<b>M.Wt</b>	Approximately 7.8 kDa, a single non-glycosylated polypeptide chain containing 66 amino acids.
<b>AA Sequence</b>	GPYHPSECCF TYTTYKIPRQ RIMDYETNS QCSKPGIVFI TKRGHSVCTN PSDKWVQDYI KDMKEN
<b>Appearance</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Stability &amp; Storage</b>	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
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered concentrated solution in 2 × PBS, pH 7.4, 5 % trehalose.
<b>Reconstitution</b>	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.
<b>Biological Activity</b>	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human monocytes is in a concentration range of 5.0-20 ng/ml.
<b>Shipping Condition</b>	Gel pack.
<b>Handling</b>	Centrifuge the vial prior to opening.
<b>Usage</b>	For Research Use Only! Not to be used in humans.

### Components and Storage

Components	10µg	100µg	500µg
Recombinant Human Hemofiltrate CC Chemokine-1, 66a.a./CCL14	10µg	100µg	500µg

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

## Quality Control

Purity	> 95 % by SDS-PAGE and HPLC analyses.
Endotoxin	Less than 1 EU/μg of rHuHCC-1, 66a.a./CCL14 as determined by LAL method.

## Description

Human CCL14 is belonging to the CC chemokine family. It is encoded by the gene CCL14. CCL14 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. The N-terminal processed forms HCC-1(3-74), HCC-1(4-74) and HCC-1(9-74) are produced in small amounts by proteolytic cleavage after secretion in blood. 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. Recombinant human CCL14 (66 a.a.) contains 66 amino acid residues and activation of the HCC 1/CCL14a precursor to active peptide is mediated by the urokinase type plasminogen activator or plasmin.

## Reference

1. Schulz-Knappe P, Magert HJ, Dewald B, et al. 1996. J Exp Med. 183:295-9
2. Detheux M, Standker L, Vakili J, et al. 2000. J Exp Med. 192:1501-8.

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