

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

#R00386

Size: 10 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 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.

AA Sequence

GPYHPSECCFTYTTYKIPRQRIMDYYETNSQCCKPGI
VFITKRGHSVCTNPSDKWVQDYIKDMKEN

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	C-C Motif Chemokine 14, HCC-3, NCC-2, Small-inducible Cytokine A14
Accession	Q16627
GeneID	6358
Species	Human
Source	Escherichia coli.
Molecular Weight	Approximately 7.8 kDa, a single non-glycosylated polypeptide chain containing 66 amino acids.
Purity	> 95 % 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 5.0-20

	ng/ml.
Physical	Sterile Filtered White lyophilized
Appearance	(freeze-dried) powder.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 2 × PBS, pH 7.4, 5 % trehalose.
Endotoxin	Less than 1 EU/µg of rHuHCC-1, 66a.a./CCL14 as determined by LAL method.