Recombinant Human Hemofiltrate CC Chemokine-1/CCL14

#R00385

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 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.

AA Sequence

TESSSRGPYHPSECCFTYTTYKIPRQRIMDYYETNSQ CSKPGIVFITKRGHSVCTNPSDKWVQDYIKDMKEN

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-1/HCC-3, NCC-2, Small-inducible Cytokine A14
Accession	Q16627
GeneID	6358
Species	Human
Source	Escherichia coli.
Molecular Weight	Approximately 8.4 kDa, a single non-glycosylated polypeptide chain containing 72 amino acids.
Purity	> 96 % 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 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 20 mM PB, pH 7.4, 100 mM NaCl.
Endotoxin	Less than 1 EU/μg of rHuHCC-1/CCL14 as determined by LAL method.