

Rev03
Update: Dec,14,2021

DATASHEET

HCC-1/CCL14, Human

Cat. No.: Z02837

Product Introduction

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| Species | Human |
| Protein Construction | CCL14 (Thr22-Asn93) Accession # Q16627 |
| Purity | > 96% as analyzed by SDS-PAGE > 96% as analyzed by HPLC |
| Endotoxin Level | < 1 EU/μg of protein by LAL method |
| 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 5.0-20.0 ng/ml. |
| Expression System | E. coli |
| Theoretical Molecular Weight | 8.4 kDa |
| Apparent Molecular Weight | ~8.4 kDa, on SDS-PAGE under reducing conditions. |
| Formulation | Lyophilized from a 0.2 μm filtered solution in 20 mM PB, pH 7.4, 100 mM NaCl. |
| Reconstitution | It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml. |
| Storage & Stability | Upon receiving, this product remains stable for up to 6 months at -70°C or -20°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. Avoid repeated freeze-thaw cycles. |

Background

Target Background : HCC-1/CCL14 is a member of the chemokine family, which are small chemotactic proteins that regulate cell migration under inflammatory and steady state conditions. HCC-1 is expressed in epithelial and decidual cells and is unique among chemokines due to its high abundance in normal human plasma. HCC-1 can bind to chemokine receptors CCR1 and CCR5, however full length HCC-1 is a weak agonist of CCR1 and only becomes potent after removal of its eight N-terminal residues. Chemokine decoy receptor D6 can bind HCC-1 and promote its degradation as a means to regulate its level in vivo. Functionally HCC-1 promotes trophoblast migration by regulating extracellular matrix components as well as specific adhesion molecules.

Synonyms : NCC-2; SCYA14; Hemofiltrate CC Chemokine-1; CCL-14

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.