

# PRODUCT DATA SHEET



Bioworld Technology, Inc.

## Recombinant HCC-1/CCL14 (72aa), Human

Catalog Number: BK0074-1mg

Source: Escherichia coli.

Quantity: 1mg

### Description:

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. Recombinant human Hemofiltrate CC Chemokine-1 (72 a.a.) (HCC-1)/CCL14 (rhHCC-1) produced in E.coli is a single non-glycosylated polypeptide chain containing 72 amino acids. A fully biologically active molecule, rhHCC-1 has a molecular mass of 8.4kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques at GenScript.

### Molecular Weight:

8.4 kDa, observed by reducing SDS-PAGE.

### Purity:

> 95% by SDS-PAGE analysis.

### Biological Activity:

ED50 < 25 µg/mL, measured by the FLIPR assay using CHO cells transfected with human CCR5, the receptor of human CCL14, corresponding to a specific

activity of > 40 units/mg.

### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

### Formulation:

Lyophilized after extensive dialysis against PBS.

### AA Sequence:

TESSSRGPYHPSECCFTYTTYKIPQRIM-DYYETNSQCSKPGIVFITKRGHSVCT-NPSDKWVQDYIKDMKEN

### Endotoxin:

< 0.2 EU/µg, determined by LAL method.

### Reconstitution:

Reconstituted in ddH2O at 100 µg/mL.

### Storage:

Lyophilized recombinant human Hemofiltrate CC Chemokine-1 (72 a.a.) (HCC-1)/CCL14 (rhHCC-1) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rhHCC-1 remains stable up to 2 weeks at 4 °C or up to 3 months at -20 °C.

### Usage:

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