

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

**Cat. No.:** Z03214-25

**Size:** 25.0 ug

**Synonyms:** NCC-2, SCYA14

### 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.

### Amino Acid Sequence:

00001 TESSSRGPYH PSECCFTYTT YKIPRQRIMD YYETNSQCSK  
00041 PGIVFITKRG HSVCTNPSDK WVQDYIKDMK EN

**Source:** *E. coli*

**Species:** Human

**Biological Activity:** ED<sub>50</sub> < 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.

**Molecular Weight:** 8.4 kDa, observed by reducing SDS-PAGE.

**Formulation:** Lyophilized after extensive dialysis against PBS.

**Reconstitution:** Reconstituted in ddH<sub>2</sub>O at 100 µg/mL.

**Purity:** > 95% by SDS-PAGE analysis.

**Endotoxin Level:** < 0.2 EU/µg, determined by LAL method.

**Storage:** Lyophilized recombinant human Hemofiltrate CC Chemokine-1 (72 a.a.) (HCC-1)/CCL14 (rhHCC-1) remains stable up to 6 months at lower than -70°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.