# Product Datasheet

## RecombinantHCC-1/CCL14(72aa),Human (orb1494848)

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| **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. |
| **Endotoxins** | < 0.2 EU/μg, determined by LAL method. |
| **Preservatives** | Lyophilized after extensive dialysis against PBS. |
| **Form/Appearance** | Lyophilized after extensive dialysis against PBS. |
| **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. |
| **Note** | For research use only |
| **Application notes** | Reconstituted in ddH2O at 100 μg/mL. |
| **Protein Sequence** | TES SSRGPYHPSE CCFTYTTYKI PRQRIMDYYE TNSQCSKPGI VFITKRGHSV CTNPSDKWVQ DYIKDMKEN |
| **Purity** | > 95% by SDS-PAGE analysis. |

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| **Source** | Escherichia coli. |
| **MW** | 8.4 kDa, observed by reducing SDS-PAGE. |
| **Expiration Date** | 6 months from date of receipt. |

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