PRODUCT DATA SHEET

Bioworld Technology,Inc.

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

Catalog Number: BK0074-5μg Source: Escherichia coli. Quantity: 5μg

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:

TESSSRGPYHPSECCFTYTTYKIPRQRIM-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℃ from date of receipt. Upon reconstitution, rhHCC-1 remains stable up to 2 weeks at 4℃ or up to 3 months at -20℃.

Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. For research use only.

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