

**Recombinant Human Hemofiltrate CC  
Chemokine-1, 66a.a./CCL14  
(rHuHCC-1, 66a.a./CCL14)**

**ChemWhat Technical Data Sheet (TDS)**

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<b>Catalog Number:</b>	204-14A
<b>Source:</b>	<i>Escherichia coli</i> .
<b>Molecular Weight:</b>	Approximately 7.8 kDa, a single non-glycosylated polypeptide chain containing 66 amino acids.
<b>Quantity:</b>	2µg/10µg/1000µg
<b>AA Sequence:</b>	GPYHPSECCF TYTTYKIPRQ RIMDYETNS QCSKPGIVFI TCRGHSVCTN PSDKWVQDYI KDMKEN
<b>Purity:</b>	> 95 % by SDS-PAGE and HPLC analyses.
<b>Biological Activity:</b>	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human monocytes is in a concentration range of 5.0-20 ng/ml.
<b>Physical Appearance:</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Formulation:</b>	Lyophilized from a 0.2 µm filtered concentrated solution in 2 × PBS, pH 7.4, 5 % trehalose.
<b>Endotoxin:</b>	Less than 1 EU/µg of rHuHCC-1, 66a.a./CCL14 as determined by LAL method.
<b>Reconstitution:</b>	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working aliquots and stored at ≤ -20 °C. Further dilutions should be made in appropriate buffered solutions.
<b>Shipping:</b>	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
<b>Stability &amp; Storage:</b>	<b>Use a manual defrost freezer and avoid repeated freeze-thaw cycles.</b> <ul style="list-style-type: none"><li>● 12 months from date of receipt, -20 to -70 °C as supplied.</li><li>● 1 month, 2 to 8 °C under sterile conditions after reconstitution.</li><li>● 3 months, -20 to -70 °C under sterile conditions after reconstitution.</li></ul>
<b>Usage:</b>	<b>ChemWhat Limited in UK offers this branded product for research, development or further evaluation purposes. NOT FOR HUMAN USE.</b>

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***Human Hemofiltrate CC Chemokine-1, 66a.a./CCL14***

Human CCL14 is belonging to the CC chemokine family. It is encoded by the gene CCL14. CCL14 has two isoforms, CCL14a (HCC-1) and CCL14b (HCC-3). The sequence of HCC-3 differs from HCC-1 as follow: 27-27 R→ QTGGKPKVVVKIQLKLVG. CCL14 was first isolated from the hemofiltrate of human patients with chronic renal failure. The N-terminal processed forms HCC-1(3-74), HCC-1(4-74) and HCC-1(9-74) are produced in small amounts by proteolytic cleavage after secretion in blood. CCL14 promotes chemotaxis of T lymphocytes, monocytes and eosinophils, and inhibits infection of M-tropic human immunodeficiency virus type 1 and is a ligand for CCR1, CCR3 and CCR5. Recombinant human CCL14 (66 a.a.) contains 66 amino acid residues and activation of the HCC 1/CCL14a precursor to active peptide is mediated by the urokinase type plasminogen activator or plasmin.