

## Recombinant Human CCL8 protein

Cat. No. CCL8-284H Lot. No. (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human CCL8 protein was expressed in Escherichia coli.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	76
<b>Description</b>	Human CCL8, also known as monocyte chemotactic protein 2 (MCP-2), is belonging to the CC chemokine family. It is encoded by the gene CCL8. MCP-2 has two homogeneous MCP-1 (CCL2) and MCP-3 (CCL7). These three MCPs were found by IL-1-beta triggered human MG-63 osteosarcoma cells. CCL8 shares 62 % amino acid sequence identity with MCP-1, and shares 58 % amino acid sequence identity with MCP-2. CCL8 has chemotactic function for monocytes, eosinophils and neutrophils. In addition, it can also chemoattract activated NK cells.
<b>Form</b>	Lyophilized from a 0.2µm filtered concentrated solution in 20 mM PB, pH 7.4, 100 mM NaCl.
<b>Bio-activity</b>	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human peripheral blood monocytes is in a concentration range of 10-100 ng/ml.
<b>Molecular Mass</b>	Approximately 8.9 kDa, a single non-glycosylated polypeptide chain containing 76 amino acids.

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

<b>AA Sequence</b>	QPDSVSIPITCCFNVINRKIPIQRLESYTRITNIQCPKEAVIFKTKRGKEVCADPKERWV RDSMKHLDQIFQNLKP
<b>Endotoxin</b>	Less than 1 EU/μg of rHuMCP-2/CCL8 as determined by LAL method.
<b>Purity</b>	>96% by SDS-PAGE and HPLC analysis.
<b>Storage</b>	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
<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 centigrade. Further dilutions should be made in appropriate buffered solutions.

## GENE INFORMATION

<b>Gene Name</b>	<b>CCL8</b>
<b>Official Symbol</b>	<b>CCL8</b>
<b>Synonyms</b>	CCL8; chemokine (C-C motif) ligand 8; SCYA8, small inducible cytokine subfamily A (Cys Cys), member 8 (monocyte chemotactic protein 2); C-C motif chemokine 8; HC14; MCP 2; small-inducible cytokine A8; monocyte chemotactic protein 2; monocyte chemoattractant protein 2; small inducible cytokine subfamily A (Cys-Cys), member 8 (monocyte chemotactic protein 2); MCP2; MCP-2; SCYA8; SCYA10;
<b>Gene ID</b>	<b>6355</b>

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mRNA Refseq	NM_005623
Protein Refseq	NP_005614
MIM	602283
UniProt ID	P80075

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