Growth Factor Data Sheet

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CCL2 is a chemokine containing four conserved cysteine residues, of which the first two are adjacent. It is expressed by monocytes, vascular endothelial cells, smooth muscle cells, glomerular mesangial cells, osteoblastic cells, and human pulmonary type 2-like epithelial cells. CCl2 expression is induced in peripheral blood mononuclear leukocytes by PHA, LPS, and IL1. It is chemotactic for monocytes and basophils and plays a role in recruiting macrophages and perpetuating inflammation in the joints of patients with rheumatoid arthritis. CCl2 is inhibited by insulin's inhibitory effect on the activity of transcription factor NF-kappa-B. CCl2 is a ligand for CCR2 and CCR4.

Catalog Number **Product Name**	**2140-02** **CCL2, Human** Recombinant Human Chemokine (C-C motif) Ligand 2 (CCL2) Monocyte Chemoattractant Protein 1 (MCP1, MCP-1) Small Inducible Cytokine Subfamily A Member 2 (SCYA2) Monocyte Chemotactic Activating Factor (MCAF) Smooth Muscle Cell Chemotactic Factor (SMC-CF) Glioma-Derived Monocyte Chemotactic Factor (GDCF)
Source	*Escherichia coli*
MW	~8.7 kDa (76 amino acids)
Sequence	QPDAINAPVT CCYNFTNRKI SVQRLASYRR ITSSKCPKEA VIFKTIVAKE ICADPKQKWV QDSMDHLDKQ TQTPKT
Accession Number	P13500
Purity	>97% by SDS-PAGE and HPLC analyses
Biological Activity	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human monocytes is in a concentration range of 10-100 ng/ml.
Formulation	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
Storage/Handling	This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage. The reconstituted sample can be apportioned into working aliquots and stored at -80 °C for up to 6 months. Avoid repeated freeze/thaw cycles.
Reconstitution	The sample should be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in a siliconized tube using PBS that contains a 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Reconstituted solutions are stable for up to one week at 2-8°C. Stock solutions should be aliquoted and stored at -80°C. Further dilutions should be made in appropriate buffered solutions containing BSA or serum.