Growth Factor Data Sheet

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CCL8 is a chemokine containing four conserved cysteine residues, of which the first two are adjacent. It is expressed by peripheral blood leukocytes, as well as a variety of other cells. Expression of CCL8 is induced by IFNG, IFNB, IL1B, and various cytokine inducers such as viruses, endotoxins, and mitogens. It is chemotactic for monocytes, lymphocytes, basophils, and eosinophils and plays a role in tumor-associated leukocyte infiltration by recruiting leukocytes to sites of inflammation. CCL8 is a ligand for CCR1, CCR2B, CCR3, CCR5, ACKR2, and ACKR4.

Catalog Number **Product Name**	**2140-08** **CCL8, Human** Recombinant Human Chemokine (C-C motif) Ligand 8 (CCL8) Monocyte Chemoattractant Protein 2 (MCP2, MCP-2) Small Inducible Cytokine Subfamily A Member 8 (SCYA8) Human Cytokine 14 (HC14)
Source	*Escherichia coli*
MW	~8.9 kDa (76 amino acids)
Sequence	QPDSVSIPIT CCFNVINRKI PIQRLESYTR ITNIQCPKEA VIFKTKRGKE VCADPKERWV RDSMKHLDQI FQNLKP
Accession Number	P80075
Purity	>96% 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 peripheral blood 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.