

Growth Factor Data Sheet

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Murine CCL12 is a chemokine containing four conserved cysteine residues, of which the first two are adjacent. It is expressed by macrophages and in lymph nodes and thymus tissue. Expression of CCL12 is upregulated after hypoxia and during bacterial infection and allergic inflammation. It is chemotactic for peripheral blood monocytes and fibrocytes and may play a critical role in the early stages of inflammation, as well as in joint and growth plate development. CCL12 is a ligand for CCR2.

Catalog Number	2340-12
Product Name	CCL12, Murine Recombinant Murine Chemokine (C-C motif) Ligand 12 (CCL12) Monocyte Chemotactic Protein 5 (MCP5, MCP-5) Small Inducible Cytokine Subfamily A Member 12 (SCYA12)
Source	<i>Escherichia coli</i>
MW	~9.3 kDa (82 amino acids)
Sequence	GPDAVSTPVT CCYNVVKQKI HVRKCLKSYRR ITSSQCPREA VIFRTILDKE ICADPKEKWV KNSINHLDKT SQTFILEPSC LG
Accession Number	Q62401
Purity	>95% 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 of 10-50 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.