

# Growth Factor Data Sheet

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Rat CCL22 is a chemokine containing four conserved cysteine residues, two of which are adjacent. It is expressed in activated splenic B-cells, macrophages, and dendritic cells. Expression of CCL22 is induced by IL4, IL13, and IFNG and inhibited by IL10. Increased expression CCL22 has also been observed after incubation of mast cells with TNF-alpha or IgE. CCL22 is chemotactic for chronically activated T-cells and plays a role in trafficking activated T cells. It also plays a role in migration and survival of cells expressing FOXP3. CCL22 is a ligand for CCR4.

<b>Catalog Number</b>	<b>2540-22</b>
<b>Product Name</b>	<b>CCL22, Rat</b> Recombinant Rat Chemokine (C-C motif) Ligand 22 (CCL22) Stimulated T Cell Chemotactic Protein 1 (STCP-1) Small Inducible Cytokine Subfamily A Member 22 (SCYA22) Macrophage-Derived Chemokine (MDC)
<b>Source</b>	<i>Escherichia coli</i>
<b>MW</b>	~7.9 kDa (68 amino acids)
<b>Sequence</b>	GPYGANVEDS ICCQDYIRHP LPPRFVKEFY WTSKSCRKPG VVLITIKNRD ICADPRMLWV KKILHKLA
<b>Purity</b>	>97% 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 T-lymphocytes is in a concentration of 10-100 ng/ml.
<b>Formulation</b>	Sterile filtered white lyophilized powder. Purified and tested for use in cell culture.
<b>Storage/Handling</b>	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.
<b>Reconstitution</b>	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.