Growth Factor Data Sheet

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CCL21 is a chemokine containing six conserved cysteine residues, two of which are adjacent. Murine CCL21 is encoded by two to three genes, depending on the strain, each product of which differs by a single amino acid and expression of these genes is regulated differentially. It is expressed in high endothelial venules of lymph nodes, as well as lung, spleen, tonsils, breast stromal cells, and a variety of other cells. Murine CCL21-Leu is expressed predominantly in the lung independent of an inducer. Expression of CCL21 is inhibited by IFNG. It is chemotactic for peripheral blood lymphocytes and plays a major role in initiation and expansion of adaptive immune responses, as well as development of local lymphoid tissue. CCL21 is a ligand for CCR7, as well as CXCR3 and the virorecptor M3.

Catalog Number **Product Name**	**2340-21** **CCL21, Murine** Recombinant Murine Chemokine (C-C motif) Ligand 21 (CCL21) T Cell Activation 4 (TCA4, TCA-4) Small Inducible Cytokine Subfamily A Member 21 (SCYA21) Secondary Lymphoid Tissue Chemokine (SLC) Exodus 2
Source	*Escherichia coli*
MW	~12.1 kDa (110 amino acids)
Sequence	SDGGGQDCCL KYSQKKIPYS IVRGYRKQEP SLGCPIPAIL FLPRKHSKPE LCANPEEGWV QNLMRRLDQP PAPGKQSPGC RKNRGTSKSG KKGKGSKGCK RTEQTQPSRG
Accession Number	P86792
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 murine T-lymphocytes is in a concentration 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.