

Growth Factor Data Sheet

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CXCL13 is a CXC chemokine lacking the ELR motif. It is expressed highest in liver tissue, followed by spleen, lymph nodes, appendix, and stomach. It is a ligand for CXCR5 and is selectively chemotactic for B lymphocytes. CXCL13 plays an essential role in the development of lymph nodes and the organization of B cells within lymphoid follicles, but its expression is downregulated within lymphoid tissues by IFN-gamma during immune responses. CXCL13 induces B cells to upregulate lymphotoxin alpha-1-beta-2, leading to CXCL13 expression and creating a positive feedback loop essential for follicular dendritic cell development and homeostasis.

Catalog Number	2110-13
Product Name	CXCL13, Human Recombinant Human Chemokine (C-X-C motif) Ligand 13 (CXCL13) B-Lymphocyte Chemoattractant (BLC) Small Inducible Cytokine Subfamily B Member 13 (SCYB13) Angie, Angie2 B Cell-Attracting Chemokine 1 (BCA1)
Source	<i>Escherichia coli</i>
MW	~10.3 kDa (87 amino acids)
Sequence	VLEVYYTSLR CRCVQESSVF IPRRFIDRIQ ILPRGNGCPR KEIIVWKKNK SIVCVDPQAE WIQRMMMEVLR KRSSTLPVP VFKRKIP
Accession Number	O43927
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 B cells is in a concentration range of 1.0-10 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.