

Growth Factor Data Sheet

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XCL1 is a chemokine lacking the first and third conserved cysteine residues usually found in chemokines. It is expressed in thymic and peripheral blood CD8+ T-cells and in natural killer cells. Highest levels of expression are seen in spleen, thymus, small intestine, and peripheral blood leukocytes. XCL1 is chemotactic for natural killer cells and CD4+ and CD8+ T-cells. It assumes two distinct conformations, one of which has been shown to inhibit HIV-1 isolates. XCL1 is a ligand for XCR1 as well as the virus-encoded viroreceptor M3.

Catalog Number	2120-01
Product Name	XCL1, Human Recombinant Human Chemokine (C motif) Ligand 1 (XCL1) Lymphotactin (LTN, LPTN) Small Inducible Cytokine Subfamily C Member 1 (SCYC1) Single Cysteine Motif 1 (SCM1, SCM1A) Activation Induced T-Cell-Derived And Chemokine Related (ATAC)
Source	<i>Escherichia coli</i>
MW	~10.2 kDa (92 amino acids)
Sequence	GSEVSDKRTC VSLTTQRLPV SRIKTYTITE GSLRAVIFIT KRGLKVCADP QATWVRDVVR SMDRKSNTNRN NMIQTKPTGT QQSTNTAVTL TG
Accession Number	P47992
Purity	>98% 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 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.