

## 32-1929: Lymphotoxin Recombinant Protein

**Alternative Name** XCL1,Cytokine SCM-1,ATAC,Lymphotoxin,SCM-1-alpha,Small inducible cytokine C1,XC chemokine ligand 1,LTN,LPTN,SCM1,SCM-1,SCYC1,SCM-1a.

### Description

Source : Escherichia Coli. Lymphotoxin Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 92 amino acids and having a molecular mass of 10007 Dalton. The Lymphotoxin is purified by proprietary chromatographic techniques. Chemokine (C motif) ligand (XCL1) is a small cytokine belonging to the XC chemokine family that is also known as lymphotoxin. It is found in high levels in spleen, thymus, intestine and peripheral blood leukocytes, and at lower levels in lung, prostate gland and ovary. Cellular sources for XCL1 include activated thymic and peripheral blood CD8+ T cells. This chemokine attracts T cells. In humans, XCL1 is closely related to another chemokine called XCL2, whose genes found at the same locus on chromosome 1. XCL1 induces its chemotactic function by binding to a chemokine receptor called XCR1.

### Product Info

**Amount :** 2x10 µg  
**Purification :** Greater than 99.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.  
**Content :** The XCL1 was lyophilized from a concentrated (1 mg/ml) solution in water containing no additives.  
**Storage condition :** Lyophilized Lymphotoxin although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution XCL1 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please avoid freeze-thaw cycles.  
**Amino Acid :** The sequence of the first five N-terminal amino acids was determined and was found to be Gln-Ser-Glu-Val-Ser.

### Application Note

It is recommended to reconstitute the lyophilized Lymphotoxin in sterile 18MΩ-cm H<sub>2</sub>O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions. The Biological activity is calculated by its ability to chemoattract human T cells at 10-100ng/ml corresponding to a Specific Activity of 10,000-100,000IU/mg.

