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## Product Data Sheet

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Product Name: Lymphotactin Rat  
 Cat. No.: GP26100  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	atRoomtemp.
Synonyms	XCL1, Cytokine SCM-1, ATAC, Lymphotaxin, SCM-1-alpha, Small inducible cytokine C1, XC chemokine ligand 1, LTN, LPTN, SCM1, SCM-1, SCYC1, SCM-1a.		
Amino Acid Sequence	VGTEVLQESI CVSLRTQRLP VQKIKTYTIK EGAMRAVIFV TKRGLRICAD PQAKWVKTAI KTVDGRASAS KSKAETIPTQ AQRSASTAVT LTG.		
Solubility	It is recommended to reconstitute the lyophilized Lymphotactin in sterile 18MΩ-cm H <sub>2</sub> O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	Lyophilized from a 0.2μm filtered concentrated solution in PBS, pH 7.4.		

### Introduction

XCL1 is a small cytokine belongs to the XC chemokine family that is also known as lymphotactin. XCL1 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 XCL2, whose gene is found at the same locus on chromosome 1. XCL1 induces its chemotactic function by binding to a chemokine receptor called XCR1.

### Biological Activity

The ED<sub>50</sub> as determined by a chemotaxis bioassay using human XCR1 transfected murine BaF3 cells < 100 ng/ml, corresponding to a specific activity of > 1.0 × 10<sup>4</sup> IU/mg.

### Stability

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Lyophilized XCL1 although stable at room temperature for 3 weeks, should be stored desiccated below  $-18^{\circ}\text{C}$ . Upon reconstitution Lymphotactin should be stored at  $4^{\circ}\text{C}$  between 2-7 days and for future use below  $-18^{\circ}\text{C}$ . Please prevent freeze-thaw cycles.

### Background

Lymphotactin (XCL1) Rat Recombinant produced in E.Coli is a non-glycosylated polypeptide chain containing 93 amino acids and having a molecular mass of approximately 10.0kDa. Lymphotactin is purified by proprietary chromatographic techniques.

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