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# 32-6608: Lymphotactin Rat

**Application :** Functional Assay

**Alternative Name :** 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.

## Description

Source: Escherichia Coli.
Sterile Filtered White lyophilized (freeze-dried) powder.
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 Source: s 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 it chemotactic function by binding to a chemokine receptor called XCR1.
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.

## Product Info

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| **Amount :** | 50 µg / 100 µg |
| **Purification :** | Greater than 97.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE. |
| **Content :** | Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.<br>It is recommended to reconstitute the lyophilized Lymphotactin in sterile 18M Omega -cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions. |
| **Storage condition :** | Lyophilized XCL1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Lymphotactin should be stored at 4°C between 2-7 days and for future use below -18°C.Please prevent freeze-thaw cycles. |
| **Amino Acid :** | VGTEVLQESI CVSLRTQRLP VQKIKTYTIK EGAMRAVIFV TKRGLRICAD PQAKWVKTAI KTVDGRASAS KSKAETIPTQ AQRSASTAVT LTG. |

## Application Note

The ED50 as determined by a chemotaxis bioassay using human XCR1 transfected murine BaF3 cells < 100 ng/ml, corresponding to a specific activity of > 1.0 Ã□â□□ 104 IU/mg.