

Recombinant Human Lymphotactin (rh LTN / XCL1)

Synonymes Cytokine SCM-1, ATAC, Lymphotaxin, SCM-1a, Small inducible cytokine C1, XC chemokine ligand 1, LPTN, SCM1, SCYC1

Introduction: Chemokine (C motif) ligand (XCL1) is a small cytokine belonging to the XC chemokine family that is also known as Lymphotactin. 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 Lymphotactin 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 gene is found at the same locus on chromosome 1. Lymphotactin induces its chemotactic function by binding to a chemokine receptor called XCR1.

Description: Recombinant human Lymphotactin produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 92 amino acids and having a molecular mass of 10007 Dalton. The Lymphotactin is purified by proprietary chromatographic techniques.

Source: Escherichia Coli

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: Lyophilized from a concentrated (1mg/ml) solution in water containing no additives. The aliquots/samples of 1µg contain Trehalose 5% (w/vol) for better recovery

Solubility: It is recommended to reconstitute the lyophilized rh Lymphotactin in sterile H₂O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Stability: Lyophilized rh Lymphotactin although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution rh Lymphotactin should be stored at 4° C between 2-7 days and for future use below -18° C. Please prevent freeze-thaw cycles.

Purity: Greater than 99.0% as determined by RP-HPLC and by SDS-PAGE.

Amino Acid Sequence: The sequence of the first five N-terminal amino acids was determined and was found to be Gln-Ser-Glu-Val-Ser.

Biological Activity: The Biological activity is calculated by its ability to chemoattract human T cells at 10.0-100.0 ng/ml.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

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| <i>small</i> | 5 µg | Cat.N° | 11344280 |
| <i>medium</i> | 20 µg | Cat.N° | 11344284 |
| <i>large</i> | 100 µg | Cat.N° | 11344286 |

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