



Product Data Sheet

Cat # RP-1018

Recombinant Human Lymphotactin (XCL1)

Size: 10 ug

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 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 gene is found at the same locus on chromosome 1. XCL1 induces its chemotactic function by binding to a chemokine receptor called XCR1.

Source: *Escherichia Coli*. Lymphotactin 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 Lymphotactin is purified by proprietary chromatographic techniques. The XCL1 was lyophilized from a concentrated (1mg/ml) solution in water containing no additives

Applications and Suggested Dilutions: Greater than 99.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE. It is recommended to reconstitute the lyophilized Lymphotactin in sterile 18MΩ-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions. Users must optimize the appropriate concentration and conditions for each assay.

Storage and Stability: Lyophilized Lymphotactin 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). If supplied in powder then reconstitute it in 100 ul water for 1 mg/ml stock and store in liquid at 4°C for ~1 week or aliquots in suitable size and store at -20°C for long term storage.
Please avoid freeze-thaw cycles.

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

Usage:
This item is for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals

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