

Lymphotactin

Human, Recombinant (rHuLymphotactin/XCL1)

Expressed in *E. coli*

Cat. No. CRP08109

Lot. No. (See product label)

PRODUCT INFORMATION

Description: Lymphotactin is the only known member of the C-chemokine family and signals through the receptor XCR1, formally known as GPR5. The spleen shows the highest level of lymphotactin compared to peripheral leukocytes, lung, colon and small intestine. Lymphotactin is chemotactic towards lymphocytes but not towards monocytes or neutrophils.

Amino-Acid Sequence: 92aa. non-glycosylated

M. W. : 10.0 kDa

Recombinant: Expressed in *E. coli*

Purity: >97% by SDS-PAGE and HPLC analyses.

Formulation: Lyophilized from a 0.2mm filtered concentrated (1.0mg/ml) solution in 20mM PB, pH7.4, 150mM NaCl.

Specific Activity: Fully biologically active when compared to standard. Determined by its ability to chemoattract human T cells using a concentration range of 10.0-100.0 ng/ml.

Endotoxin: Less than 1EU/mg of rHuXCL1 as determined by LAL method.

Reconstitution: We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working aliquots and stored at ≤-20°C. Further dilutions should be made in appropriate buffered solutions.

Storage: This lyophilized preparation is stable for several weeks at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.

FOR RESEARCH USE ONLY

GENE INFORMATION

Gene Name: [XCL1](#)

Synonyms: LTN; ATAC; LPTN; SCM1; SCM-1; SCYC1; SCM-1a; chemokine (C motif) ligand 1; lymphotactin; XCL1_HUMAN; Lymphotactin [Precursor]; C motif chemokine 1; Cytokine SCM-1; SCM-1-alpha; Small-inducible cytokine C1; XC chemokine ligand 1

UniProt ID: P47992

mRNA Refseq: [NM_002995](#)

Protein Refseq: [NP_002986](#)

MIM: [600250](#)

GeneID: [6375](#)

Chromosome Location: 1q23

Pathway: Cytokine-cytokine receptor interaction.

Function: chemokine activity

REFERENCES

- 1.Kennedy J, Kelner G, Kleyensteuber S, Schall T, Weiss M, Yssel H, Schneider P, Cocks B, Bacon K, Zlotnik A (1995). Molecular cloning and functional characterization of human lymphotactin. *J Immunol* 155 (1): 203-9.
- 2.Yoshida T, Imai T, Takagi S, Nishimura M, Ishikawa I, Yaoi T, Yoshie O (1996). Structure and expression of two highly related genes encoding SCM-1/human lymphotactin. *FEBS Lett* 395 (1): 82-8.
- 3.Yoshida T, Imai T, Kakizaki M, Nishimura M, Takagi S, Yoshie O (1998). Identification of single C motif-1/ lymphotactin receptor XCR1. *J Biol Chem* 273 (26): 16551-4.