

Lymphotactin/XCL1 Protein, Mouse, Recombinant (His)

General Information

Synonyms:	SCM-1a;Al661682;chemokine (C motif) ligand 1;SCM-1;LTN;ATAC;Lptn;Scyc1
Protein Construction:	A DNA sequence encoding the mouse XCL1 (P47993) (Met 1-Gly 114) was expressed, with a C-terminal polyhistidine tag. Predicted N terminal: Val 22
Species:	Mouse
Expression Host:	Baculovirus Insect Cells
Accession:	P47993
Molecular Weight:	11.5 kDa (predicted); 20 kDa (reducing conditions)

QC Testing

Biological Activity:	Activity testing is in progress. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 80 % as determined by SDS-PAGE
Endotoxin:	< 1.0 EU/μg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 μm filter, containing 50 mM Tris, 100 mM NaCl, pH 7.4, 10% gly. Typically, a mixture containing 5% to 8% trehalose, mannitol, and 0.01% Tween 80 is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:	A Certificate of Analysis (CoA) containing reconstitution instructions is included with the products. Please refer to the CoA for detailed information.
Stability & Storage:	It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots. <small>Actual storage temperature shall be subject to the COA.</small>
Shipping:	In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

This antimicrobial gene encodes a member of the chemokine superfamily. Chemokines function in inflammatory and immunological responses, inducing leukocyte migration and activation. The encoded protein is a member of the C-chemokine subfamily, retaining only two of four cysteines conserved in other chemokines, and is thought to be specifically chemotactic for T cells. This gene and a closely related family member are located on the long arm of chromosome 1. Cancer Immunotherapy/Immune Checkpoint/Immunotherapy/Targeted Therapy

Reference

- Nguyen KD, et al. (2008) XCL1 enhances regulatory activities of CD4+CD25(high) CD127(low/-) T cells in human allergic asthma. *J Immunol.* 181 (8): 5386-95.
- Dong C, et al. (2005) Glycosylated recombinant human XCL1 / lymphotactin exhibits enhanced biologic activity. *J Immunol Methods.* 302 (1-2): 136-44.
- Zavala-Flores LM, et al. (2009) Production of biologically active human lymphotactin (XCL1) by *Lactococcus lactis*. *Biotechnol Lett.* 31 (2): 215-20.
- Guzzo C, Fox JC, Miao H, Volkman BF, Lusso P. Structural Determinants for the Selective Anti-HIV-1 Activity of the All- β Alternative Conformer of XCL1. Kirchhoff F, ed. *Journal of Virology.* 2015;89(17):9061-9067.

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