

Recombinant Mouse Xcl1 protein

Cat. No. Xcl1-182M **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Mouse Xcl1 protein was expressed in Escherichia coli.
Species	Mouse
Source	E.coli
ProteinLength	93
Description	Chemokine (C motif) ligand (XCL1) is a small cytokine belonging to the C chemokine family that is also known as lymphotactin. Chemokines are known for their function in inflammatory and immunological responses. This family C chemokines differs in structure and function from most chemokines. There are only two chemokines in this family and what separated them from other chemokines is that they only have two cysteines; one N-terminal cysteine and one cysteine downstream. These both are called Lymphotactin, alpha and beta form, and claim special characteristics only found between the two. Lymphotactins can go through a reversible conformational change which changes its binding shifts.
Form	Lyophilized from a 0.2µm filtered concentrated solution in PBS, pH 7.4.
Bio-activity	Fully biologically active when compared to standard. The ED50 as determined by a chemotaxis bioassay using human XCR1 transfected murine BaF3 cells is less than 100 ng/ml, corresponding to a specific activity of $> 1.0 \times 10^4$ IU/mg.
Molecular Mass	Approximately 10.1 kDa, a single non-glycosylated polypeptide chain containing 93

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	amino acids.
AA Sequence	VGTEVLEESSCVNLQTQRLPVQKIKTYIIWEGAMRAVIFVTKRGLKICADPEAKWVKA AIKTVDGRASTRKNMAETVPTGAQRSTSTAITLTG
Endotoxin	Less than 0.1 EU/μg of rMuLymphotactin/XCL1 as determined by LAL method.
Purity	>97% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
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 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	Xcl1
Official Symbol	Xcl1
Synonyms	XCL1; chemokine (C motif) ligand 1; lymphotactin; lymphotaxin; cytokine SCM-1; c motif chemokine 1; small-inducible cytokine C1; small inducible cytokine subfamily C, member 1 (lymphotactin); LTN; ATAC; Lptn; SCM-1; Scyc1; SCM-1a; AI661682;
Gene ID	16963

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mRNA Refseq	NM_008510
Protein Refseq	NP_032536
UniProt ID	P47993

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