

## Recombinant Rat Lymphotactin/XCL1 (Rat Lymphotactin/XCL1)

### Product Information

Product Name	Cat#	Size
	91011ES08	5 µg
Recombinant Rat Lymphotactin/XCL1 (Rat Lymphotactin/XCL1)	91011ES60	100 µg
	91011ES76	500 µg

### Product Description

Lymphotactin (Lptn) and its human homologue (also named human SCM-1 and ATAC) belong to the C or gamma subfamily of chemokines. The C chemokines lack two (the 1st and 3rd) of the four invariant cysteine residues normally found in the CC and CXC chemokines and have an extended carboxy terminus. The expression of lymphotactin is restricted to activated mouse pro-T cells and to activated, class I MHC restricted T cells. The gene for lymphotactin has been mapped to chromosome 1 in both human and Rat. Recombinant lymphotactin has been shown to have chemotactic activity for lymphocytes, NK cells and splenocytes.

### Product Properties

<b>Synonyms</b>	ATAC, C motif chemokine 1, Cytokine SCM-1, Lymphotaxin, SCM-1-alpha, Small-inducible cytokine C1
<b>Accession</b>	P51672
<b>GeneID</b>	171371
<b>Source</b>	E.coli-derived Rat Lymphotactin/XCL1, Val22-Gly114.
<b>Molecular Weight</b>	Approximately 10.0 kDa.
<b>AA Sequence</b>	VGTEVLEESS CVNLQTQRLP VQKIKTYIIW EGAMRAVIFV TKRGLKICAD PEAKWVKAAL KTVDGRASTR KNMAETVPTG AQRSTSTAIT LTG
<b>Tag</b>	None
<b>Physical Appearance</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Purity</b>	> 97% by SDS-PAGE and HPLC analyses.
<b>Biological Activity</b>	The ED <sub>50</sub> 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 × 10 <sup>4</sup> IU/mg. Fully biologically active when compared to standard.
<b>Endotoxin</b>	< 0.1 EU per 1µg of the protein by the LAL method.
<b>Formulation</b>	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
<b>Reconstitution</b>	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.

### Shipping and Storage

The products are shipped with ice pack and can be stored at -20°C to -80°C for 1 year.

Recommend to aliquot the protein into smaller quantities when first used and avoid repeated freeze-thaw cycles.

## **Cautions**

1. Avoid repeated freeze-thaw cycles.
2. For your safety and health, please wear lab coats and disposable gloves for operation.
3. For research use only!