

Recombinant Human Lymphotactin/XCL1

#R00372

Size: 5 µg/100 µg/500 µg

Stability & Storage

Use a manual defrost freezer and avoid repeated freeze-thaw cycles.

- 12 months from date of receipt, -20 to -70 °C as supplied.
- 1 month, 2 to 8 °C under sterile conditions after reconstitution.
- 3 months, -20 to -70 °C under sterile conditions after reconstitution.



Warning: This product is intended for scientific research only. It is not to be used for medical or diagnostic procedures in humans or animals, nor as a food, cosmetic, or household product.

Background

Chemokine (C motif) ligand (XCL1), as known as lymphotactin, is the only known member of the C-chemokine family and signals through the receptor XCR1, formally known as GPR5. The expression of lymphotactin is abundant in some activated T cells such as activated CD8+ T cells and other class I MHC restricted T cells. It is found in high levels in spleen, thymus, intestine and peripheral blood leukocytes, and at lower levels in lung, prostate gland and ovary. XCL1 induces its chemotactic function by binding to a chemokine receptor called XCR1. Recombinant Human XCL1 which is a single non-glycosylated polypeptide chains containing 92 amino acids and it shares approximately 60 % amino acid sequence homology with the murine and rat protein.

AA Sequence

GSEVSDKRTCVSLLTQRLPVSRIKTYTITEGSLRAVIFI

TKRGLKVCADPQATWVRDVVRSMRKSNTNRNMIQ
TKPTGTQQSTNTAVTLTG

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.

Product Specification

Synonyms	ATAC, C motif chemokine 1, Cytokine SCM-1, Lymphotaxin, SCM-1-alpha, Small-inducible cytokine C1, XC chemokine ligand 1
Accession	P47992
GeneID	6375
Species	Human
Source	Escherichia coli.
Molecular Weight	Approximately 10.2 kDa, a single non-glycosylated polypeptide chain containing 92 amino acids.
Purity	> 98 % by SDS-PAGE and HPLC analyses.
Biological Activity	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using

	human T-lymphocytes is in a concentration of 10-100 ng/ml.
Physical Appearance	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, pH 7.4, 150 mM NaCl.
Endotoxin	Less than 1 EU/µg of rHuLymphotactin/XCL1 as determined by LAL method.