

ChemWhat Technical Data Sheet (TDS)

Catalog Number:	242-01
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 10.0 kDa, a single non-glycosylated polypeptide chain containing 93 amino acids.
Quantity:	5µg /20µg /1000µg
AA Sequence:	VGTEVLQESI CVSLRTQRLP VQKIKTYTIK EGAMRAVIFV TKRGLRICAD PQAKWVKTAI KTVDGRASAS KSKAETIPTQ AQRSASTAVT LTG
Purity:	> 97 % by SDS-PAGE and HPLC analyses.
Biological Activity:	Fully biologically active when compared to standard. The ED ₅₀ 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 ⁴ IU/mg.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in PBS, pH 7.4.
Endotoxin:	Less than 0.1 EU/µg of rRtLymphotactin/XCL1 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.
Shipping:	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. <ul style="list-style-type: none">● 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.
Usage:	ChemWhat Limited in UK offers this branded product for research, development or further evaluation purposes. NOT FOR HUMAN USE.

Rat Lymphotactin/XCL1

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 Rat XCL1 which is a single non-glycosylated polypeptide chains containing 93 amino acids and it shares approximately 57 % and 82 % amino acid sequence homology with the human and murine XCL1.