

XCL1 Protein, Rat (His)

Cat. No.:	HY-P71947A
Synonyms:	Xcl1; Ltn; Scyc1; Lymphotactin; C motif chemokine 1; Cytokine SCM-1; Small-inducible cytokine C1
Species:	Rat
Source:	E. coli
Accession:	P51672 (V22-G114)
Gene ID:	171371
Molecular Weight:	Approximately 13 kDa

PROPERTIES

AA Sequence	V G T E V L Q E S I C V S L R T Q R L P V Q K I K T Y T I K E G A M R A V I F V T K R G L R I C A D P Q A K W V K T A I K T V D G R A S A S K S K A E T I P T Q A Q R S A S T A V T L T G
Biological Activity	Measured by its ability to chemoattract Jurkat cells. The ED ₅₀ this effect is 27.03 ng/mL, corresponding to a specific activity is 3.70×10 ⁴ units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 50 mM Tris-HCL, 300 mM NaCl, 200 mM arginine, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	XCL1 protein exhibits chemotactic activity specifically for lymphocytes while not attracting monocytes or neutrophils. In the thymus, it plays a crucial role in mediating the accumulation of dendritic cells in the medulla and contributes to the development of regulatory T cells, thus playing a vital role in establishing self-tolerance.
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Caution: Product has not been fully validated for medical applications. For research use only.

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