

Recombinant Rat Cxcl5 protein

Cat. No. Cxcl5-629R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Cxcl5 protein was expressed in Escherichia coli.
Species	Rat
Source	E.coli
ProteinLength	93
Description	CXCL5 is a small cytokine belonging to the CXC chemokine family that is also known as epithelial-derived neutrophil-activating peptide 78 (ENA-78). It is produced following stimulation of cells with the inflammatory cytokines interleukin-1 or tumor necrosis factor-alpha. The expression of CXCL5 has also been observed in eosinophils, and can be inhibited with the type II interferon IFN-γ. Recombinant rat CXCL5 contains 93 amino acids which is a single, non-glycosylated polypeptide chain. Rat CXCL5 shares 57 % amino acid sequence identity with human CXCL5.
Form	Lyophilized from a 0.2μm filtered concentrated solution in 2 × PBS, pH 7.4.
Bio-activity	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human peripheral blood neutrophils is in a concentration of 10-100 ng/ml.
Molecular Mass	Approximately 10.1 kDa, a single, non-glycosylated polypeptide chain containing 93 amino acids.

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AA Sequence	APFSAMVATELRCVCLTLAPRINPKMIANLEVIPAGPHCPKVEVIAKLKNQKDNVCLD PQAPLIKKVVIQKILGSENKKTKRNALALVRSASTQ
Endotoxin	Less than 1 EU/μg of rRtLIX/CXCL5 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	Cxcl5
Official Symbol	Cxcl5
Synonyms	CXCL5; chemokine (C-X-C motif) ligand 5; C-X-C motif chemokine 5; cytokine LIX; CXC chemokine LIX; small-inducible cytokine B5; chemokine (C-X-C motif) ligand 6 (granulocyte chemotactic protein 2); Cxcl6;
Gene ID	60665
mRNA Refseq	NM_022214

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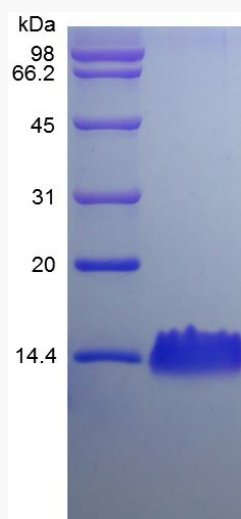
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Protein Refseq NP_071550

UniProt ID P97885

SDS-PAGE of Cxcl5-
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