

Active Recombinant Rat Cxcl5 Protein (88 aa)

Cat. No. Cxcl5-227C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant rat LIX/CXCL5 (88aa) produced in CHO cells is a polypeptide chain containing 88 amino acids. A fully biologically active molecule, rrLIX/CXCL5 (88aa) has a molecular mass of 9.6 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.
Species	Rat
Source	CHO
ProteinLength	88
Description	LPSinduced CXC chemokine (LIX), also known as C-X-C motif chemokine 5(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. Rat LIX cDNA encodes a 130 aa residue precursor with a predicted 37 aa residue signal peptide and a 93 aa residue mature protein. Among human CXC chemokines, rat LIX is most closely related to human GCP-2 and ENA-78.LIX can signal through the CXCR2 receptor.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	The EC50 value of rat LIX/CXCL5 (88aa) on Ca ²⁺ mobilization assay in CHO-K1/Gα15/rCXCR2 cells (human Gα15 and rat CXCR2 stably expressed in CHO-K1 cells) is less than 3

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	µg/mL.
Molecular Mass	9.6 kDa, observed by reducing SDS-PAGE.
AA Sequence	APFSAMVATELRCVCLTLAPRINPKMIANLEVIPAGPHCPKVEVIAKLKNQKDNVCLD PQAPLIKKVIQKILGSENKKTNRNALALVR
Endotoxin	< 0.2 EU/µg, determined by LAL method.
Purity	> 98% as analyzed by SDS-PAGE.
Storage	Lyophilized recombinant Rat LIX/CXCL5(88aa) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rat LIX/CXCL5(88aa) should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH2O or PBS at 100 µg/mL.

GENE INFORMATION

Gene Name	Cxcl5 chemokine (C-X-C motif) ligand 5 [<i>Rattus norvegicus</i>]
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

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mRNA Refseq	NM_022214
Protein Refseq	NP_071550
UniProt ID	P97885

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