

## Active Recombinant Rat Cxcl5 Protein (88 aa)

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

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
|-------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | 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.                                                                                                                                                                                                                                                                                                                                             |
| <b>Species</b>          | Rat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Source</b>           | CHO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>ProteinLength</b>    | 88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Description</b>      | 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. |
| <b>Form</b>             | Sterile Filtered White lyophilized (freeze-dried) powder.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Bio-activity</b>     | The EC50 value of rat LIX/CXCL5 (88aa) on Ca <sup>2+</sup> 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.                                                                                                                                                                                                                                        |
| <b>Molecular Mass</b> | 9.6 kDa, observed by reducing SDS-PAGE.                                                                                                                                                                                                       |
| <b>AA Sequence</b>    | APFSAMVATELRCVCLTLAPRINPKMIANLEVIPAGPHCPKVEVIAKLKNQKDNVCLD<br>PQAPLIKKVIQKILGSENKKTNRNALALVR                                                                                                                                                  |
| <b>Endotoxin</b>      | < 0.2 EU/µg, determined by LAL method.                                                                                                                                                                                                        |
| <b>Purity</b>         | > 98% as analyzed by SDS-PAGE.                                                                                                                                                                                                                |
| <b>Storage</b>        | 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. |
| <b>Storage Buffer</b> | Lyophilized after extensive dialysis against PBS.                                                                                                                                                                                             |
| <b>Reconstitution</b> | Reconstituted in ddH <sub>2</sub> O or PBS at 100 µg/mL.                                                                                                                                                                                      |

## GENE INFORMATION

|                        |                                                                                                                                                                                                              |
|------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | Cxcl5 chemokine (C-X-C motif) ligand 5 [ <i>Rattus norvegicus</i> ]                                                                                                                                          |
| <b>Official Symbol</b> | Cxcl5                                                                                                                                                                                                        |
| <b>Synonyms</b>        | 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; |
| <b>Gene ID</b>         | 60665                                                                                                                                                                                                        |

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|----------------|-----------|
| mRNA Refseq    | NM_022214 |
| Protein Refseq | NP_071550 |
| UniProt ID     | P97885    |

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