

## LIX/CXCL5 (88aa), Rat

**Cat. No.:** Z03266-10

**Size:** 10.0 ug

**Synonyms:** LIX, Epithelial Neutrophil Activating Peptide-78, CXCL5, ENA-78

### Description:

LPS-induced 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.

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 at GenScript.

### Amino Acid Sequence:

00001 APFSAMVATE LRCVCLTLAP RINPKMIANL EVIPAGPHCP  
00041 KVEVIAKLKN QKDNVCLDPQ APLIKKVIQK ILGSENKTKT  
00081 RNALALVR

**Source:** CHO

**Species:** Rat

**Biological Activity:** The EC<sub>50</sub> value of rat LIX/CXCL5 (88aa) on Ca<sup>2+</sup> mobilization assay in CHO-K1/G $\alpha$ 15/rCXCR2 cells (human Ga15 and rat CXCR2 stably expressed in CHO-K1 cells) is less than 3  $\mu$ g/ml.

**Molecular Weight:** 9.6 kDa, observed by reducing SDS-PAGE.

**Formulation:** Lyophilized after extensive dialysis against PBS.

**Reconstitution:** Reconstituted in ddH<sub>2</sub>O or PBS at 100  $\mu$ g/ml.

**Purity:** > 98% as analyzed by SDS-PAGE.

**Endotoxin Level:** < 0.2 EU/ $\mu$ g, determined by LAL method.

**Storage:** Lyophilized recombinant Rat LIX/CXCL5(88aa) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, rat LIX/CXCL5(88aa) should be stable up to 1 week at 4°C or up to 2 months at -20°C.