LIX/CXCL5 (88aa), Rat

Cat. No.: Z03266-50

Size: 50.0 ug

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

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.

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:

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00001 APFSAMVATE LRCVCLTLAP RINPKMIANL EVIPAGPHCP
00041 KVEVIAKLKN QKDNVCLDPQ APLIKKVIQK ILGSENKKTK
00081 RNALALVR
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Source: *CHO*

Species: Rat

Biological Activity: The EC_{50} value of rat LIX/CXCL5 (88aa) on Ca^{2+} mobilization assay in CHO-K1/G☐15/rCXCR2 cells (human Ga15 and rat CXCR2 stably expressed in CHO-K1 cells) is less than 3 µg/ml.

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

Formulation: Lyophilized after extensive dialysis against PBS.

Reconstitution: Reconstituted in ddH_2O or PBS at 100 µg/ml.

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

Endotoxin Level: < 0.2 EU/µg, 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.