TECHNICAL DATA SHEET

Recombinant Mouse LIX (CXCL6) (92 a.a.) (Carrier-Free)

Catalog Number: 21-9136

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

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Recombinant Mouse LIX (CXCL6) (92 a.a.) (Carrier-Free)

DESCRIPTION

CXCL6, also known as LIX in mice, is a CXC chemokine that signals through the CXCR2 receptor. It is expressed in monocytes, platelets, endothelial cells, and mast cells. LIX is a chemoattractant for neutrophils. The two naturally occurring variants of LIX, LIX 1-78 (GCP-2) and LIX 9-78 (GCP-2), contain 78 and 70 amino acid residues, respectively. LIX contains the four conserved cysteine residues present in CXC chemokines, and also contains the 'ELR' motif common to CXC chemokines that binds to the CXCR1 and CXCR2 receptors.

MOLECULAR MASS

Recombinant Mouse LIX is a 9.8 kDa protein containing 92 amino acid residues.

AMINO ACID SEQUENCE

APSSVIAATE LRCVCLTVTP KINPKLIANL EVIPAGPQCP TVEVIAKLKN QKEVCLDPEA PVIKKIIQKI LGSDKKKAKR NALAVERTAS VQ

SOURCE	APPLICATIONS	PURITY	STORAGE
E. coli	Bioassay	98 %	-20°C

PROTEIN CONTENT

Content Verified by UV Spectroscopy and/or SDS-PAGE gel.

ENDOTOXIN LEVEL

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

AUTHENTICITY

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

CROSS REACTIVITY

Human, Mouse

BIOACTIVITY

Determined by its ability to chemoattract human neutrophils using a concentration range of 10-100 ng/ml.

RESEARCH AREAS

Inflammation, Wound Healing, Angiogenesis/Cardiovascular, Chemotaxis

RECONSTITUTION

See Certificate of Analysis (COA) for lot specific reconstitution information.

REFERENCES

Chandrasekar, B. Chemokine-cytokine cross-talk. The ELR+ CXC chemokine LIX (CXCL5) amplifies a proinflammatory cytokine response via a phosphatidylinositol 3-kinase-NF-kappa B pathway. 2003. The Journal of Biological Chemistry; 278(7):4675-4686. Mei, J. CXCL5 regulates chemokine scavenging and pulmonary host defense to bacterial infection. 2010. Immunity; 33(1):106-17.