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Mouse LIX (CXCL6) (92a.a) - Purified

Alternate names: C-X-C motif chemokine 6, CKA-3, CKA-3, Chemokine alpha 3, Granulocyte chemotactic protein 2, SCYB6, Small-inducible cytokine B6

Catalog No.: PA023

Quantity: 5 µg

Background: LIX 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 chemokine that bind to the CXCR1 and CXCR2 receptors.

Species: Mouse

Source: E. coli

Format:
State: Lyophilized (0.2µ Sterile filtered) purified protein
Purity: ›98% pure by SDS-PAGE and HPLC analyses
Buffer System: 5 mM Acetic Acid
Endotoxin Level: ‹ 0.1 ng per µg (1EU/µg)
Reconstitution: Restore in water to a concentration of 0.1-1.0 mg/ml.
This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Description: Recombinant Murine LIX is a 9.8 kDa protein containing 92 amino acid residues.
AA Sequence:
APSSVIAATE LRCVCLTVTP KINPKLIANL EVIPAGPQCP TVEVIAKLKN QKEVCLDPEA PVIKKIIQKI LGSDKKKAKR NALAVERTAS VQ
Biological Activity: **Assay 1:** Determined by its ability to chemoattract Human neutrophils using a concentration range of 10.0-100.0 ng/ml.
Assay 2: Determined by its ability to chemoattract Murine lymphocytes using a concentration range of 10.0-100.0 ng/ml.
Molecular weight: 9.8 kDa

Add. Information: Centrifuge the vial prior to opening!

Storage: Store lyophilized at 2-8°C for 6 months or at -20°C long term.
After reconstitution store the antibody undiluted at 2-8°C for one month or (in aliquots) at -20°C long term.
Avoid repeated freezing and thawing.
Shelf life: one year from despatch.

General Readings: 1. Yu JJ, Ruddy MJ, Wong GC, Sfintescu C, Baker PJ, Smith JB, et al. An essential role for IL-17 in preventing pathogen-initiated bone destruction: recruitment of neutrophils to inflamed

bone requires IL-17 receptor-dependent signals. Blood. 2007 May 1;109(9):3794-802. Epub 2007 Jan 3. PubMed PMID: 17202320.
2. Van den Steen PE, Van Aelst I, Hvidberg V, Piccard H, Fiten P, Jacobsen C, et al. The hemopexin and O-glycosylated domains tune gelatinase B/MMP-9 bioavailability via inhibition and binding to cargo receptors. J Biol Chem. 2006 Jul 7;281(27):18626-37. Epub 2006 May 3. PubMed PMID: 16672230.
3. Ueda Y, Kondo M, Kelsoe G. Inflammation and the reciprocal production of granulocytes and lymphocytes in bone marrow. J Exp Med. 2005 Jun 6;201(11):1771-80. PubMed PMID: 15939792.
4. Chandrasekar B, Melby PC, Sarau HM, Raveendran M, Perla RP, Marelli-Berg FM, et al. Chemokine-cytokine cross-talk. The ELR+ CXC chemokine LIX (CXCL5) amplifies a proinflammatory cytokine response via a phosphatidylinositol 3-kinase-NF-kappa B pathway. J Biol Chem. 2003 Feb 14;278(7):4675-86. Epub 2002 Dec 4. PubMed PMID: 12468547.