

Active Recombinant Mouse Cxcl5 Protein (74 aa)

Cat. No. Cxcl5-228C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant mouse LIX/CXCL5 (74aa) produced in CHO cells is a single polypeptide chain containing 74 amino acids. rmLIX/CXCL5(74aa) has a molecular mass of 8 kDa analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.
Species	Mouse
Source	CHO
ProteinLength	74
Description	Mouse LIX (C-X-C motif chemokine 5) is a small cytokine belonging to the CXC chemokine family that is cleaved into the following 2 chains [GCP-2(1-78) and GCP-2(9-78)]. Mouse LIX plays a role in reducing sensitivity to sunburn pain in some subjects, and is a potential target which could be used to understand more about pain in other inflammatory conditions. It is most closely related to two highly homologous human neutrophil chemoattractants GCP-2 and ENA-78. The first 78 amino acid residues within the predicted mature mouse LIX shares approximately 61% and 55% amino acid identity with human GCP-2 and ENA-78. This chemokine stimulates the chemotaxis of neutrophils possessing angiogenic properties. It elicits these effects by interacting with the cell surface chemokine receptor CXCR2.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	The EC50 value of mouse LIX/CXCL5 (74aa) on Ca ²⁺ mobilization assay in CHO-

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

	K1/Gα15/mCXCR2 cells (human Gα15 and mouse CXCR2 stably expressed in CHO-K1 cells) is less than 200 ng/mL.
Molecular Mass	8 kDa, observed by reducing SDS-PAGE.
AA Sequence	VIAATELRCVCLTVTPKINPKLIANLEVIPAGPQCPTVEVIAKLKNQKEVCLDPEAPVIK KIIQKILGSDKKKA
Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 98% as analyzed by SDS-PAGE.
Storage	Lyophilized recombinant mouse LIX/CXCL5 remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, mouse LIX/CXCL5 should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 μg/mL.

GENE INFORMATION

Gene Name	Cxcl5 chemokine (C-X-C motif) ligand 5 [<i>Mus musculus</i>]
Official Symbol	Cxcl5
Synonyms	CXCL5; chemokine (C-X-C motif) ligand 5; C-X-C motif chemokine 5; cytokine LIX; small-inducible cytokine B5; granulocyte chemotactic protein-2; small inducible cytokine B subfamily, member 5; small inducible cytokine subfamily B, member 15; LIX; GCP-2; Scyb5; Scyb6; ENA-78; AMCF-II;

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Gene ID	20311
mRNA Refseq	NM_009141
Protein Refseq	NP_033167
UniProt ID	P50228

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