

DATASHEET
Version 20181206**LIX/CXCL5 (74aa), Mouse****Cat. No.:** Z03250-50**Size:** 50.0 ug

Synonyms: C-X-C motif chemokine 5, Small-inducible cytokine B5, Cytokine LIX, Cxcl5, Scyb5, LIX, GCP-2, Scyb6, ENA-78, AMCF-II.

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.

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 at GenScript.

Amino Acid Sequence:

00001 VIAATELRGV CLTVTPKINP KLIANLEVIP AGPQCPTVEV
00041 IAKLKNQKEV CLDPEAPVIK KIIQKILGSD KKKA

Source: CHO**Species:** Mouse

Biological Activity: The EC₅₀ value of mouse LIX/CXCL5 (74aa) on Ca²⁺ mobilization assay in CHO-K1/Gα15/mCXCR2 cells (human Gα15 and mouse CXCR2 stably expressed in CHO-K1 cells) is less than 200 ng/mL.

Molecular Weight: 8 kDa, observed by reducing SDS-PAGE.

Formulation: Lyophilized after extensive dialysis against PBS.

Reconstitution: Reconstituted in ddH₂O 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 mouse LIX/CXCL5 remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, mouse LIX/CXCL5 should be stable up to 1 week at 4°C or up to 2 months at -20°C.