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## Product Data Sheet

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Product Name: LIX Mouse  
 Cat. No.: GP21145  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	C-X-C motif chemokine 5; Small-inducible cytokine B5; Cytokine LIX; Cxcl5; Scyb5; LIX; GCP-2; Scyb6; ENA-78; AMCF-II.		
Amino Acid Sequence	VIAATELRCV CLTVTPKINP KLIANLEVIP AGPQCPTVEV IAKLKNQKEV CLDPEAPVIK KIIQKILGSD KKKA.		
Solubility	It is recommended to reconstitute the lyophilized LIX Mouse in sterile 18M-cm H <sub>2</sub> O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	LIX Mouse is lyophilized from a 0.2µm filtered solution in PBS.		

### Introduction

Chemokine (C-X-C motif) ligand 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. Expression of CXCL5 has also been observed in eosinophils, and can be inhibited with the type II IFN. This chemokine stimulates the chemotaxis of neutrophils possesses angiogenic properties. It elicits these effects by interacting with the cell surface chemokine receptor CXCR2. The gene for CXCL5 is encoded on four exons and is located on human chromosome 4 amongst several other CXC chemokine genes. CXCL5 has been implicated in connective tissue remodelling.

### Biological Activity

The ED<sub>50</sub>, as measured by its ability to chemoattract human CXCR2-transfected mouse BaF3 cells, is less than 0.1µg/ml.

**Caution: Product has not been fully validated for medical applications. For research use only.**

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Address: 10292 Central Ave. #205, Montclair, CA, USA

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### Stability

Lyophilized LIX Mouse although stable at room temperature for 3 weeks, should be stored desiccated below  $-18^{\circ}\text{C}$ . Upon reconstitution CXCL5 should be stored at  $4^{\circ}\text{C}$  between 2-7 days and for future use below  $-18^{\circ}\text{C}$ . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Background

LIX Mouse (CXCL5) Recombinant (49-118) produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 74 amino acids and having a molecular mass of 8kDa. The LIX Mouse is expressed with 4 additional amino acids [VIAA] at n-terminus and purified by proprietary chromatographic techniques.

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