

## PRODUCT DATA SHEET



Bioworld Technology, Inc.

### Recombinant Murine LIX/CXCL5 (93a.a.) (rMuLIX/CXCL5)

Catalog Number: PR2027

Source: Escherichia coli.

Quantity: 5µg/20µg/1.0mg

#### Description

The murine homolog of ENA-78 is called LIX. ENA-78/LIX is a CXC chemokine that signals through the CXCR2 receptor. It is expressed in monocytes, platelets, endothelial cells, and mast cells. ENA-78/LIX is a chemoattractant for neutrophils. The three naturally occurring variants of human ENA-78; ENA 5-78, ENA 9-78 and ENA 10-78, contain 74, 70, and 69 amino acid residues, respectively, and possess the same biological activity. ENA-78/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.

#### Molecular Weight:

9.8 kDa, a single, non-glycosylated polypeptide chain containing 93 amino acids.

#### Purity:

>97% by SDS-PAGE and HPLC analyses.

#### Biological Activity:

Fully biologically active when compared to standard. Determined by its ability to chemoattract human peripheral blood neutrophils using a concentration range of 10.0-100.0 ng/ml, corresponding to a Specific Activity of  $1 \times 10^4$  IU/mg.

#### Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

#### Formulation:

Lyophilized from a 0.2µm filtered concentrated solution in 20mM PB, pH 7.4, 150mM NaCl.

#### AA Sequence:

A P S S V I A A T E L R C V C L T V T P K I N P K L I A  
N L E V I P A G P Q C P T V E V I A K L K N Q K E V C  
L D P E A P V I K K I I Q K I L G S D K K K A K R N A  
L A V E R T A S V Q

#### Endotoxin:

Less than 1EU/µg of rMuLIX/CXCL5 as determined by LAL method.

#### Reconstitution:

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml. Stock solutions should be apportioned into working aliquots and stored at <-20°C. Further dilutions should be made in appropriate buffered solutions.

#### Storage:

This lyophilized preparation is stable for several weeks at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. Avoid repeated freeze/thaw cycles.

#### Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE. Made in China

MADE IN CHINA

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