

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant Murine MIP-2/CXCL2 (rMuMIP-2/CXCL2)

Catalog Number: PR2031

Source: Escherichia coli.

Quantity: 5µg/20µg/1.0mg

Description

Macrophage Inflammatory Protein 2 (MIP-2) was originally identified as a heparin binding protein secreted from a murine macrophage cell line in response to endotoxin stimulation. Based on its protein and DNA sequences, MIP-2 is a member of the alpha (CXC) subfamily of chemokines.

Similarly to other alpha chemokines, murine MIP-2 is a potent neutrophil attractant and activator. MIP-2 and KC can bind the murine interleukin 8 type B receptor homologue with high affinity. The expression of MIP-2 was found to be associated with neutrophil influx in pulmonary inflammation and glomerulonephritis, suggesting that MIP-2 may contribute to the pathogenesis of inflammatory diseases.

Molecular Weight:

7.8 kDa, a single, non-glycosylated polypeptide chain containing 73 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 total human neutrophils using a concentration range of 1.0-10.0 ng/ml, corresponding to a Specific Activity of $\square 1 \times 10^5$ IU/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

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

AA Sequence:

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

Endotoxin:

Less than 1EU/mg of rMuMIP-2/CXCL2 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 $<-20^{\circ}\text{C}$. Further dilutions should be made in appropriate buffered solutions.

Storage:

This lyophilized preparation is stable at $2-8^{\circ}\text{C}$, 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 $2-8^{\circ}\text{C}$. 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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