

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant Rat GRO- β /MIP-2/CXCL2 (rRtGRO- β /MIP-2/CXCL2)

Catalog Number: PR3005

Source: Escherichia coli.

Quantity: 5 μ g/25 μ g/1.0mg

Description

Rat GRO-beta/MIP-2/CXCL2 has been found to be expressed by cytokine stimulated rat alveolar macrophages and fibroblasts. Based on its protein and DNA sequences, GRO-beta/MIP-2 is a member of the alpha (CXC) subfamily of chemokines.

The protein sequence of rat GRO-beta/MIP-2 shares approximately 88% identity with murine MIP2. Characteristic of ELR containing CXC chemokines, GRO-beta/MIP-2 is known to be a potent chemotactic factor for rat neutrophils in vitro and in vivo.

Molecular Weight:

7.9 kDa, a single, non-glycosylated polypeptide chain containing 73 amino acids.

Purity:

>98% 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 $\geq 1 \times 10^5$ IU/mg.

Physical Appearance:

Sterile Filtered White Lyophilized (freeze-dried) powder.

Formulation:

Lyophilized from a 0.2 μ m filtered concentrated solution in PBS, pH 7.4.

AA Sequence:

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

Endotoxin:

Less than 1EU/ μ g of rRtMIP-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 for several weeks at 2-8 $^{\circ}\text{C}$, but should be kept at -20 $^{\circ}\text{C}$ 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 $^{\circ}\text{C}$ to -70 $^{\circ}\text{C}$. 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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