

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant Murine GRO/KC/ CXCL1 (rMuKC/CXCL1)

Catalog Number: PR2018

Source: Escherichia coli.

Quantity: 5µg/20µg/1.0mg

Description

KC coded by CXCL1 gene at chromosome 5 is approximately 63% identity to that of mouse MIP2. KC is also approximately 60% identical to the human GROs. Mouse KC is a potent neutrophil attractant and activator. The functional receptor for KC has been identified as CXCR2. Based on the pattern of KC expression in a number of inflammatory disease models, KC appears to have an important role in inflammation. KC was found to be involved in monocyte arrest on atherosclerotic endothelium and may also play a pathophysiological role in Alzheimer's disease.

Molecular Weight:

Approximately 7.8kDa, a single non-glycosylated polypeptide chain containing 72 amino acid residues.

Purity:

>97% by SDS-PAGE and HPLC analyses.

Biological Activity:

Measured by its ability to chemoattract human CXCR2 transfected BaF3 mouse proB cells.

The ED50 for this effect is typically 3-15 ng/mL.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

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

AA Sequence:

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

Endotoxin:

Less than 1EU/µg of rMuKC/CXCL1 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 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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