

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant Rat GRO/CXCL1 (rRtGRO/CXCL1)

Catalog Number: PR3004

Source: Escherichia coli.

Quantity: 5µg/25µg/1.0mg

Description

All three isoforms of GRO are CXC chemokines that can signal through the CXCR1 or CXCR2 receptors. The GRO proteins chemoattract and activate neutrophils and basophils. Recombinant rat GRO/KC is a 7.8 kDa protein consisting of 72 amino acids including the 'ELR' motif common to the CXC chemokine family that bind to CXCR1 or CXCR2.

Molecular Weight:

7.8 kDa, a single, non-glycosylated polypeptide chain containing 72 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 rat neutrophils using a concentration range of 10.0-100.0 ng/ml, corresponding to a Specific Activity of 1×10^4 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 V A N E L R C Q C L Q T V A G I H F K N I Q S L K
V M P P 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 M V Q K I V Q K M L K G V P K

Endotoxin:

Less than 1EU/µg of rRtGRO/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 $<-20^{\circ}\text{C}$. 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°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

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