

GRO- α /KC/CXCL1
Catalog # PVGS1154**Specification**

GRO- α /KC/CXCL1 - Product Information

Primary Accession [P12850](#)
Species
Mouse

Sequence
Ala25-Lys96

Purity
> 97% as analyzed by SDS-PAGE
> 97% as analyzed by HPLC

Endotoxin Level
< 1 EU/ μ g of protein by LAL method

Biological Activity
Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using human peripheral blood neutrophils is in a concentration range of 10.0-100.0 ng/ml.

Expression System
E. coli

Theoretical Molecular Weight
7.8 kDa

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

Reconstitution
It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml.

Storage & Stability
Upon receiving, this product remains stable for up to 6 months at -70°C or -20°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. Avoid repeated freeze-thaw cycles.

GRO- α /KC/CXCL1 - Additional Information

Gene ID 14825

Other Names
Growth-regulated alpha protein, C-X-C motif chemokine 1, Platelet-derived growth factor-inducible protein KC, Secretory protein N51, KC(5-72), Hematopoietic synergistic factor, HSF, KC-T, Cxcl1, Gro, Gro1, Mgsa, Scyb1

Target Background

GRO- α /KC/CXCL1 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.

GRO- α /KC/CXCL1 - Protein Information

Name Cxcl1

Synonyms Gro, Gro1, Mgsa, Scyb1

Function

Has chemotactic activity for neutrophils. Contributes to neutrophil activation during inflammation (By similarity). Hematopoietic chemokine, which, in vitro, suppresses hematopoietic progenitor cell proliferation. KC(5-72) shows a highly enhanced hematopoietic activity.

Cellular Location

Secreted.

GRO- α /KC/CXCL1 - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

GRO- α /KC/CXCL1 - Images