

Rev03  
Update: Dec,14,2021

**DATASHEET**

# GRO- $\alpha$ /KC/CXCL1, Mouse

Cat. No.: Z02899

## Product Introduction

<b>Species</b>	Mouse
<b>Protein Construction</b>	<b>GRO-<math>\alpha</math> (Ala25-Lys96)</b> Accession # P12850
<b>Purity</b>	> 97% as analyzed by SDS-PAGE > 97% as analyzed by HPLC
<b>Endotoxin Level</b>	< 1 EU/ $\mu$ g of protein by LAL method
<b>Biological Activity</b>	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.
<b>Expression System</b>	E. coli
<b>Theoretical Molecular Weight</b>	7.8 kDa
<b>Formulation</b>	Lyophilized from a 0.2 $\mu$ m filtered solution in PBS, pH 7.4.
<b>Reconstitution</b>	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.
<b>Storage &amp; Stability</b>	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.

## Background

**Target Background :** GRO- $\alpha$ /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.

**Synonyms :** Growth Regulated Protein/Melanoma Growth Stimulatory Activity; GRO  $\alpha$ ; MGSA  $\alpha$ ; CXCL1; NAP-3; GRO1; KC (murine); CINC (rat)

For laboratory research use only. Direct human use, including taking orally and injection and clinical use are forbidden.