

# Recombinant Mouse CXCL1/GRO-alpha Protein

Catalog No.: RP01615 **Recombinant**

## Sequence Information

Species	Gene ID	Swiss Prot
Mouse	14825	P12850

### Tags

No tag

### Synonyms

FSP; GRO1; GROa; MGSA; MGSA-a;  
NAP-3; SCYB1;CXCL1

## Product Information

Source	Purification
<i>Pichia</i>	> 95% by SDS-PAGE.

### Endotoxin

<0.1EU/ $\mu$ g

### Formulation

Lyophilized from a 0.22  $\mu$ m filtered solution of PBS, pH 7.4.

### Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## Contact

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## Background

This antimicrobial protein belongs a member of the CXC subfamily of chemokines. The encoded protein is a secreted growth factor that signals through the G-protein coupled receptor, CXC receptor 2. This protein plays a role in inflammation and as a chemoattractant for neutrophils. Aberrant expression of this protein is associated with the growth and progression of certain tumors. A naturally occurring processed form of this protein has increased chemotactic activity. Alternate splicing results in coding and non-coding variants of this gene. A pseudogene of this gene is found on chromosome 4.

## Basic Information

### Description

Recombinant Mouse CXCL1/GRO-alpha Protein is produced by *Pichia* expression system. The target protein is expressed with sequence (Arg20-Lys96) of mouse CXCL1/GRO-alpha (Accession #NP\_032202.1) fused with no additional amino acid.

### Bio-Activity

Measured by its binding ability in a functional ELISA. Immobilized Mouse CXCL1 at 2 $\mu$ g/mL (100  $\mu$ L/well) can bind GRO alpha Rabbit pAb with a linear range of 0.6-2.37 ng/mL.

### Storage

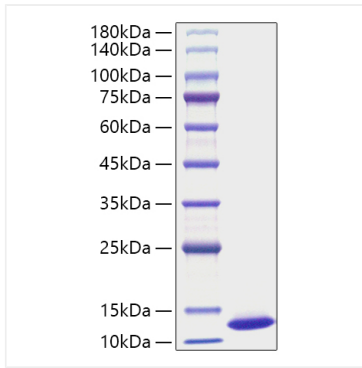
Store the lyophilized protein at -20°C to -80°C for 12 months.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

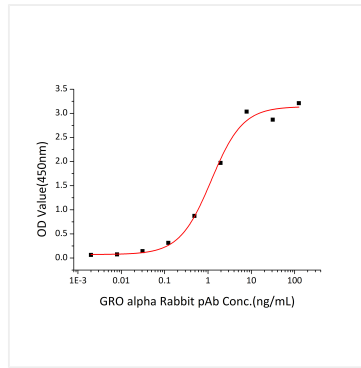
Avoid repeated freeze/thaw cycles.

## Validation Data

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Recombinant Mouse CXCL1/GRO-alpha Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 8.3 kDa.



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