

For Research Use Only

# Recombinant Rat CXCL1 protein (His Tag)



Catalog Number: Eg0948

## Basic Information

**Species:**  
Rat

**Purity:**  
>90 %, SDS-PAGE

**Tag:**  
His Tag

## Technical Specifications

**Purity:**  
>90 %, SDS-PAGE

**Endotoxin Level:**  
<0.1 EU/μg protein, LAL method

**Source:**  
HEK293-derived Rat CXCL1 protein Ala25-Lys96 (Accession# P14095) with a His tag at the N-terminus.

**GeneID:**  
81503

**Accession:**  
P14095

**Predicted Molecular Mass:**  
8.9 kDa

**SDS-PAGE:**  
10-12 kDa, reducing (R) conditions

**Formulation:**  
Lyophilized from 0.22 μm filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

### Storage:

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

### Shipping:

The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

CXC motif chemokine ligand 1 (CXCL1), a CXC chemokine, is also known as growth-regulated (or-related) oncogene-α (Gro-α) and melanoma growth-stimulatory activity (MGSA). It is one of seven chemokines that activate the CXC motif chemokine receptor 2 (CXCR2) and one of the most studied CXC chemokines. CXCL1 is a chemoattractant cytokine. Its most important property is to cause chemotaxis of immune cells, mainly neutrophils, and to a lesser extent CD14+ monocytes and basophils, but not T cells. It also reduces neutrophil apoptosis and thus increases the accumulation of these cells at sites of inflammatory reactions. CXCL1 also causes the chemotaxis of endothelial cells and thus participates in angiogenesis.

## References

1. Hughes. et al. (2018). FEBS J. 285, 2944–2971.
2. Haskill. et al (1990). Proc. Natl. Acad. Sci. 87, 7732–7736.
3. Richmond. et al (1985). Cancer Res. 45, 6390–6394.
4. Maheshwari. et al (2005). Cytokine. 29, 135–140.
5. Yadav. et al (2019). J. Leukoc. Biol. 105, 755–766.
6. Spangler. et al (2013). Genesis. 51, 587–595.
7. Geissmann. et al (2003). Immunity. 19, 71–82.
8. Geiser. et al (1993). J. Biol. Chem. 268, 15419–15424.

## Synonyms

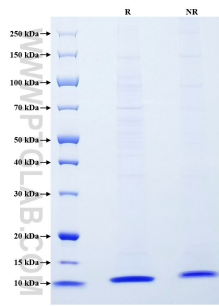
Cinc1, CINC-1, C-X-C motif chemokine 1, Cytokine-induced neutrophil chemoattractant 1, Gro

For technical support and original validation data for this product please contact

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## Selected Validation Data



Purity of Recombinant Rat Cxcl1 was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.