# Human CXCL1 Protein, Fc Tag (MALS verified)

Catalog # CX1-H5253

## Synonym

Growth-regulated alpha protein, C-X-C motif chemokine 1, GRO-alpha, Melanoma growth stimulatory activity, MGSA, Neutrophil-activating protein 3, NAP-3, GRO1, SCYB1

## Source

Human CXCL1, Fc Tag(CX1-H5253) is expressed from human 293 cells (HEK293). It contains AA Ala 35 - Asn 107 (Accession # P09341 ).
Predicted N-terminus: Ala 35

## Molecular Characterization


This protein carries a human IgG1 Fc tag at the C-terminus

The protein has a calculated MW of 34.3 kDa. The protein migrates as 37-43 kDa under reducing (R) condition (SDS-PAGE) due to glycosylation.

## Endotoxin

Less than 1.0 EU per μg by the LAL method.

## Purity

>95% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

## Formulation

Lyophilized from 0.22 μm filtered solution in PBS, pH7.4 with trehalose as protectant.

Contact us for customized product form or formulation.

## Reconstitution

Please see Certificate of Analysis for specific instructions.

***For best performance, we strongly recommend you to follow the reconstitution protocol provided in the CoA.***

## Storage

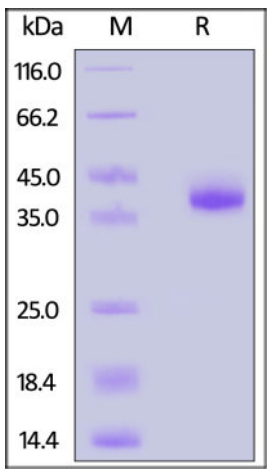
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

***Please avoid repeated freeze-thaw cycles.***

This product is stable after storage at:

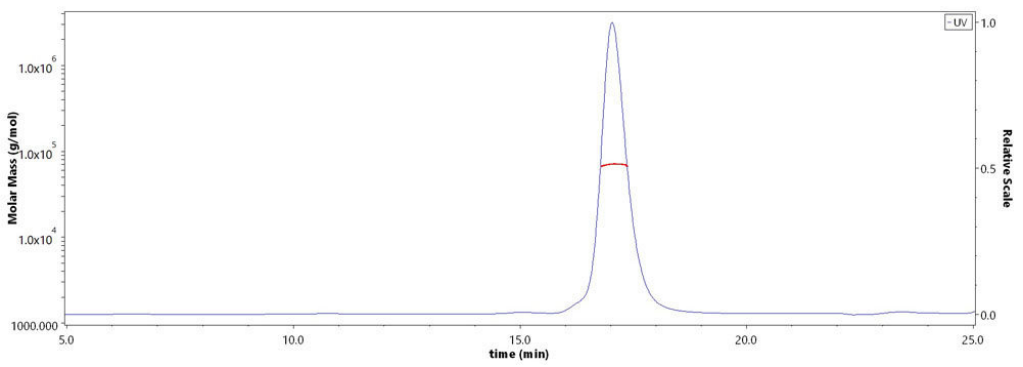
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

## SDS-PAGE




Human CXCL1, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained overnight with Coomassie Blue. The purity of the protein is greater than 95%.

## SEC-MALS




The purity of Human CXCL1, Fc Tag (Cat. No. CX1-H5253) is more than 95% and the molecular weight of this protein is around 60-75 kDa verified by SEC-MALS.
Report

## Background

Chemokine (C-X-C motif) ligand 1 (CXCL1) is a small molecule of cytokines belonging to the CXC chemokine family. Also known as growth-regulated oncogene alpha (Growth-regulated oncogene alpha, GROα). Its also known as keratinocytes-derived chemokine (KC) in mice or cytokine-induced neutrophil chemoattractant type-1 (CINC-1) in rats. In humans, this protein is encoded by the gene Cxcl1 and is located on human chromosome 4 among genes for other CXC chemokines. The

chemokine CXCL1 is expressed by macrophages, neutrophils and epithelial cells. The chemokine CXCL1 has a chemotactic effect on neutrophils. CXCL1 binds to the chemokine receptor CXCR2 and plays a role in cell chemotaxis. Human CXCL1 is clustered on chromosome 4 adjacent to many CXC chemokine genes. Major roles of CXCL1 include neovascularization, inflammation, wound healing, and tumorigenesis.

## Clinical and Translational Updates

Please contact us via TechSupport@acrobiosystems.com if you have any question on this product.