



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 μ g by the LAL method / rFC method.

Purity

>95% as determined by SDS-PAGE.

>95% as determined by SEC-MALS.

Formulation

Lyophilized from 0.22 μ m 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

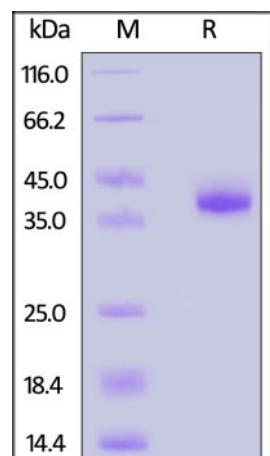
For long term storage, the product should be stored at lyophilized state at -20°C or lower.

Please avoid repeated freeze-thaw cycles.

This product is stable after storage at:

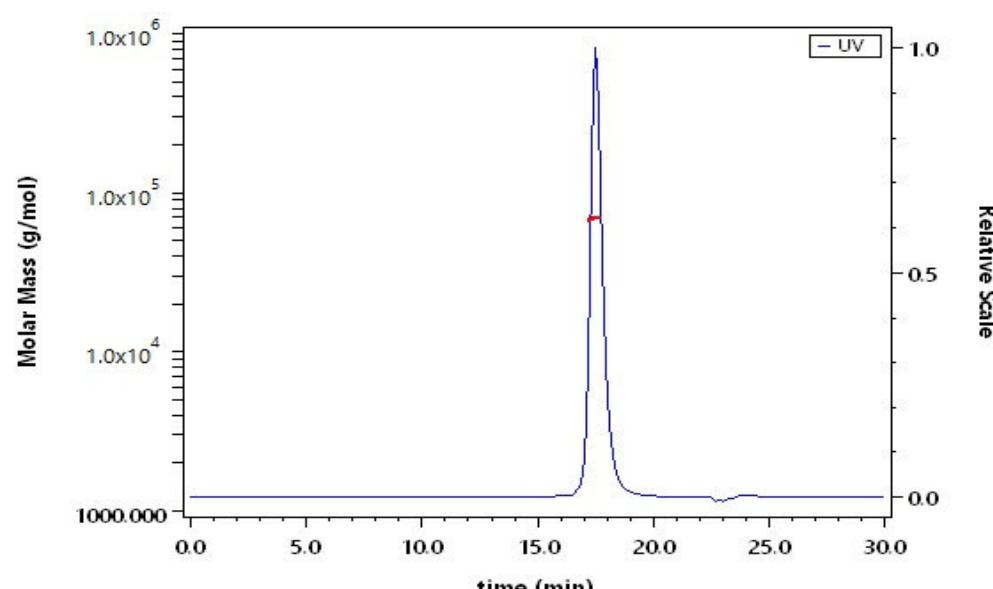
- -20°C to -70°C for 12 months in lyophilized state;
- -70°C for 3 months under sterile conditions after reconstitution.

SDS-PAGE



Human CXCL1, Fc Tag on SDS-PAGE under reducing (R) condition. The gel was stained 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.

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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, GRO α). It's 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

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