

## GRO-alpha Active Protein | GRO a active protein

Recombinant Human GRO-alpha (CXCL1)

CATALOG #  
**AAA38089**

HOST  
**E Coli**

### PRODUCT SYNONYMS

GRO-alpha; Recombinant Human GRO-alpha (CXCL1); GRO a Human; GRO-Alpha Human Recombinant (CXCL1); Growth-regulated protein alpha; CXCL1; Melanoma growth stimulatory activity; MGSA; Neutrophil-activating protein 3; NAP-3; GRO-alpha (1-73); chemokine (C-X-C motif) ligand 1; GRO1; GROa; SCYB1; MGSA-a; MGSA alpha; GRO a active protein

### PRODUCT SPECIFICATIONS

|                         |                                                                                                                                                                                                                                                                                                                                                               |
|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Host                    | E Coli                                                                                                                                                                                                                                                                                                                                                        |
| Purity/Purification     | Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.                                                                                                                                                                                                                                                                       |
| Form/Format             | Lyophilized from a 0.2 um filtered concentrated (1mg/ml) solution in 20mM PB, pH 7.4, 50mM NaCl. Sterile Filtered White lyophilized (freeze-dried) powder.                                                                                                                                                                                                    |
| Sequence                | Thesequenc eofthefirs tfiveN-ter minalamino acidswasde terminedan dwasfoundt obeAla-Ser -Val-Ala-T hr                                                                                                                                                                                                                                                         |
| Sequence Length         | 107                                                                                                                                                                                                                                                                                                                                                           |
| Solubility              | It is recommended to reconstitute the lyophilized CXCL1 in sterile 18M Omega -cm H2O not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.                                                                                                                                                                                   |
| Biological Activity     | Determined by its ability to chemoattract human peripheral blood neutrophils using a concentration range of 10.0-100.0 ng/ml.                                                                                                                                                                                                                                 |
| Preparation and Storage | Lyophilized GRO-alpha although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution CXCL1 should be stored at 4 degree C between 2-7 days and for future use below -18 degree C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).Please prevent freeze-thaw cycles. |

### ADDITIONAL INFORMATION

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|------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Related Product Information for GRO a active protein | <p><b>Description:</b> GRO Alpha Human Recombinant produced in E Coli is a single,non-glycosylated, polypeptide chain containing 73 amino acids and having a molecular mass of 7811 Dalton. The GRO-alpha is purified by proprietary chromatographic techniques.</p> <p><b>Introduction:</b> Chemokine (C-X-C motif) ligand 1 (CXCL1) is a small cytokine belonging to the CXC chemokine family that was previously called GRO1 oncogene, Neutrophil-activating protein 3 (NAP-3) and melanoma growth stimulating activity, alpha (MSGa-a). It is secreted by human melanoma cells, has mitogenic properties and is implicated in melanoma pathogenesis. CXCL1 is expressed by macrophages, neutrophilsand epithelial cells, and has neutrophil chemoattractant activity. CXCL1 plays a role in spinal cord development by inhibiting the migration of oligodendrocyte precursors and is involved in the processes of angiogenesis, inflammation, wound healing, and tumorigenesis. This chemokine elicits its effects by signaling through the chemokine receptor CXCR2. The gene for CXCL1 is located on human chromosome 4 amongst genes for other CXC chemokines.</p> |
| Product Categories/Family for GRO a active protein   | Chemokines; GRO                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |

### NCBI AND UNIPROT INFORMATION

|           |         |
|-----------|---------|
| NCBI GI # | 4504153 |
|-----------|---------|

|                                  |                                                                                                                                                                                                                                                                                                                    |
|----------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| NCBI GeneID                      | <a href="#">2919</a>                                                                                                                                                                                                                                                                                               |
| NCBI Accession #                 | <a href="#">NP_001502.1</a>                                                                                                                                                                                                                                                                                        |
| NCBI GenBank Nucleotide #        | <a href="#">NM_001511.3</a>                                                                                                                                                                                                                                                                                        |
| UniProt Accession #              | <a href="#">P09341</a> ; <a href="#">Q9UCR7</a>                                                                                                                                                                                                                                                                    |
| Molecular Weight                 | 11,301 Da                                                                                                                                                                                                                                                                                                          |
| NCBI Official Full Name          | growth-regulated alpha protein                                                                                                                                                                                                                                                                                     |
| NCBI Official Synonym Full Names | chemokine (C-X-C motif) ligand 1 (melanoma growth stimulating activity, alpha)                                                                                                                                                                                                                                     |
| NCBI Official Symbol             | CXCL1                                                                                                                                                                                                                                                                                                              |
| NCBI Official Synonym Symbols    | FSP; GRO1; GROa; MGSA; NAP-3; SCYB1; MGSA-a                                                                                                                                                                                                                                                                        |
| NCBI Protein Information         | growth-regulated alpha protein; C-X-C motif chemokine 1; GRO-alpha(1-73); GRO1 oncogene (melanoma growth stimulating activity, alpha); GRO1 oncogene (melanoma growth-stimulating activity); MGSA alpha; fibroblast secretory protein; melanoma growth stimulatory activity alpha; neutrophil-activating protein 3 |
| UniProt Protein Name             | Growth-regulated alpha protein                                                                                                                                                                                                                                                                                     |
| UniProt Gene Name                | <b>CXCL1</b>                                                                                                                                                                                                                                                                                                       |
| UniProt Synonym Gene Names       | GRO; GRO1; GROA; MGSA; SCYB1; MGSA; NAP-3                                                                                                                                                                                                                                                                          |
| UniProt Entry Name               | GROA_HUMAN                                                                                                                                                                                                                                                                                                         |

**For Research Use Only.** Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-gro-a-active-protein/gro-alpha/38089>