

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

Related Product Information for GRO a active protein	Description: 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. Introduction: 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.
Product Categories/Family for GRO a active protein	Chemokines; GRO

NCBI AND UNIPROT INFORMATION

NCBI GI #	4504153
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NCBI GeneID	2919
NCBI Accession #	NP_001502.1
NCBI GenBank Nucleotide #	NM_001511.3
UniProt Accession #	P09341 ; Q9UCR7
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	CXCL1
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://www.aaabiotech.com/e-coli-gro-a-active-protein/gro-alpha/38089>