

GRO-alpha (CXCL1) Recombinant Protein | CXCL1 recombinant protein

Mouse GRO-alpha (CXCL1) Recombinant

CATALOG #	HOST
AAA76110	E Coli (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)

PRODUCT SYNONYMS

GRO-alpha (CXCL1); Mouse GRO-alpha (CXCL1) Recombinant; Mouse GRO-a Recombinant; GRO; GRO1; GROA; MGSA; SCYB1; cxcl1; gro-alpha; CXCL1 recombinant protein

PRODUCT SPECIFICATIONS

Host	E Coli (Host protein expression may be lot-specific and can be subject to change during production, including bulk orders)
Purity/Purification	>97%, as determined by SDS-PAGE and HPLC
Form/Format	Recombinant mouse GRO-alpha/CXCL1 was lyophilized from a 0.2um filtered PBS pH 7.4.
Sequence	QTEVIATLKN GREACLDPEA PLVQKIVQKM LKGVPK
Sequence Length	96
Domain	IL8
Host Note	Optimized DNA sequence encoding mouse GRO alpha mature chain was expressed in Escherichia Coli.
Biological Activity	Determined by the ability to chemoattract human neutrophils using a concentration range of 0-50 ng/ml.
Endotoxin	Endotoxin content was assayed using a LAL gel clot method. Endotoxin level was found to be less than 0.1 ng/ug (1EU/ug).
Reconstitution	A quick spin of the vial followed by reconstitution in distilled water to a concentration not less than 0.1 mg/mL. This solution can then be diluted into other buffers.
Molecular Weight Note	Native mouse CXCL1/GRO-alpha is generated by the proteolytic removal of the signal peptide and propeptide. The molecule has a calculated molecular mass of approximately 8 kDa. Recombinant mouse CXCL1/GRO-a is a disulfide-linked homodimeric protein consisting of 73 amino acid residue subunits, and migrates as an approximately 8 kDa protein under non-reducing and reducing conditions in SDS-PAGE.
Preparation and Storage	The lyophilized protein is stable for at least 1 year from date of receipt at -20 degree C. Upon reconstitution, this cytokine can be stored in working aliquots at 2 degree - 8 degree C for one month, or at -20 degree C for six months, with a carrier protein without detectable loss of activity. Avoid repeated freeze/thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for CXCL1 recombinant protein	Growth regulated oncogene- alpha belongs to the family of chemotactic cytokines called chemokines. It is identical with MGSA (melanoma growth stimulatory activity) and the new designation is CXCL1.
Product Categories/Family for CXCL1 recombinant protein	Cytokines

References	• a potential role of the cxc chemokine gro in atherosclerosis and plaque destabilization: downregulatory effects of statins .<i>Arterioscler Thromb Vasc Biol</i>, May 2008; 28: 1005 - 1011. • hsv infection and hsv-immune complex both trigger production of neutrophil activating molecules (il-8,gro- and gm-csf) in ocular mucosal cells .<i>Invest. Ophthalmol. Vis. Sci.</i>, Apr 2008; 49: 492. • mice deficient in the cxcr2 ligand, cxcl1 (kc/gro-), exhibit increased susceptibility to dextran sodium sulfate (dss) - induced colitis .<i>Innate Immunity</i>, Apr 2008; 14: 117 - 124. • gro is highly expressed in adenocarcinoma of the colon and down-regulates fibulin-1 .<i>Clin. Cancer Res.</i>, Oct 2006; 12: 5951 - 5959. • gro- regulation in airway smooth muscle by il-1 and tnf-: role of nf-b and map kinases .<i>Am J Physiol Lung Cell Mol Physiol</i>, Jul 2006; 291: L66 - L74.
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NCBI AND UNIPROT INFORMATION

NCBI GI #	6680109
NCBI GeneID	14825
NCBI Accession #	NP_032202.1
NCBI GenBank Nucleotide #	NM_008176.3
UniProt Accession #	P12850
NCBI Official Full Name	growth-regulated alpha protein
UniProt Protein Name	Growth-regulated alpha protein
UniProt Gene Name	Cxcl1
UniProt Synonym Gene Names	Gro; Gro1; Mgsa; Scyb1; HSF
UniProt Entry Name	GROA_MOUSE

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/cxcl1-recombinant-protein-e-coli/76110>