

GRO/KC Active Protein | mGRO1/KC active protein

Recombinant Mouse GRO/KC (CXCL1)

CATALOG #
AAA38092

HOST
E Coli

PRODUCT SYNONYMS

GRO/KC; Recombinant Mouse GRO/KC (CXCL1); GRO1/KC Mouse; GRO1/KC Mouse Recombinant (CXCL1); Growth-regulated alpha protein; CXCL1; Platelet-derived growth factor-inducible protein KC; Secretory protein N51; KC; Fsp; N51; gro; Gro1; Mgsa; Scyb1; chemokine (C-X-C motif) ligand 1; mGRO1/KC active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Form/Format	The protein was lyophilized with no additives. Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence	RLATGAPIAN ELRCQCLQTM AGIHLKNIQS LKVLPSGPHC TQTEVIATLK NGREACLDPE APLVQKIVQK MLKGVPK
Sequence Length	96
Solubility	It is recommended to reconstitute the lyophilized GRO1 Recombinant in sterile 18M Omega -cm H2O not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.
Protein Content	Protein quantitation was carried out by two independent methods: 1. UV spectroscopy at 280 nm using the absorbency value of 0.03 as the extinction coefficient for a 0.1% (1mg/ml) solution. This value is calculated by the PC GENE computer analysis program of protein sequences (IntelliGenetics). 2. Analysis by RP-HPLC, using a standard solution of KC as a Reference Standard.
Biological Activity	The biological activity was determined by measuring the dose dependent mobilization of intracellular calcium (calcium flux) with human neutrophils. Significant calcium mobilization is observed with 250ng/mL of recombinant mouse KC (Specific Activity: 2 x 10 ⁴ units/mg).
Preparation and Storage	Lyophilized KC Mouse 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 mGRO1/KC active protein

Description: KC Mouse Recombinant also known as N51 and GRO1 produced in E Coli is a single, non-glycosylated, polypeptide chain containing 77 amino acids and having a molecular mass of approximately 8 kDa. The GRO-1 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, neutrophils and 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
mGRO1/KC active protein

Chemokines; GRO

NCBI AND UNIPROT INFORMATION

NCBI GI #	6680109
NCBI GeneID	14825
NCBI Accession #	NP_032202.1
NCBI GenBank Nucleotide #	NM_008176.3
UniProt Accession #	P12850
Molecular Weight	10,254 Da
NCBI Official Full Name	growth-regulated alpha protein
NCBI Official Synonym Full Names	chemokine (C-X-C motif) ligand 1
NCBI Official Symbol	Cxcl1
NCBI Official Synonym Symbols	KC; Fsp; N51; gro; Gro1; Mgsa; Scyb1
NCBI Protein Information	growth-regulated alpha protein; C-X-C motif chemokine 1; GRO1 oncogene; KC/GR)-alpha; KC/GRO-alpha; alpha-chemokine; platelet-derived growth factor-inducible protein KC; secretory protein N51
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://stage.aaabiotech.com/e-coli-mgro1-kc-active-protein/gro-kc/38092>