

## GRO1/KC Mouse Recombinant (CXCL1)

<b>Item Number</b>	rAP-0159
<b>Synonyms</b>	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.
<b>Description</b>	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.
<b>Uniprot Accession Number</b>	P12850
<b>Amino Acid Sequence</b>	RLATGAPIANELRCQ CLQTMAGIHL KNIQSLKVLP SGPHCTQTEV IATLKNGREA CLDPEAPLVQ KI-VQKMLKGV PK.
<b>Source</b>	Escherichia Coli.
<b>Physical Appearance and Stability</b>	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized KC Mouse although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution CXCL1 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.
<b>Formulation and Purity</b>	The protein was lyophilized with no additives. Greater than 95.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
<b>Application</b>	
<b>Solubility</b>	It is recommended to reconstitute the lyophilized GRO1 Recombinant in sterile 18MΩ-cm H <sub>2</sub> O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
<b>Biological Activity</b>	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 >50ng/mL of recombinant mouse KC (Specific Activi
<b>Shipping Format and Condition</b>	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**