Cxcl1
Recombinant Rat GRO-alpha/CXCL1

Catalog No.	CRG502A	**Quantity:**	5 µg
	CRG502B		25 µg
	CRG502C		1.0 mg

Alternate Names: Chemokine (C-X-C motif) ligand 1, GRO1, CINC-1, CXCL1

Description: All three isoforms of GRO are CXC chemokines that can signal through the CXCR1 or CXCR2 receptors. The GRO proteins chemoattract and activate neutrophils and basophils. Recombinant rat GRO is a protein consisting of 72 amino acids including the 'ELR' motif common to the CXC chemokine family that bind to CXCR1 or CXCR2.

Gene ID: 81503

Source: *E. coli*

Molecular Weight: ~7.8 kDa

Formulation: Lyophilized from a 0.2 µm filtered concentrated solution in 20mM Phosphate Buffer, pH 7.4, + 150 mM NaCl.

Purity: >97% by SDS-PAGE and HPLC analyses.

Endotoxin Level: <1 EU/µg as determined by LAL method.

Biological Activity: Fully biologically active when compared to standard. The ED_{50} determined by a chemotaxis bioassay using rat neutrophils is less than 100 ng/ml.

Specific Activity: $>1.0 \times 10^4$ IU/mg.

Amino Acid Sequence: APVANELRCQ CLQTVAGIHF KNIQSLKVMP PGPHCTQTEV IATLKNGREA CLDPEAPMVQ KIVQKMLKGV PK

Reconstitution: **Centrifuge vial prior to opening.** Add sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/ml. Further dilutions should be made in appropriate buffered solutions.

Storage & Stability: This lyophilized preparation is stable at 2-8°C. Upon receipt, store desiccated at -20°C. After reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -80°C. For long term storage of reconstituted protein, it is recommended that a carrier protein such as 0.1% BSA or HSA be added. This depends on the particular application. **Avoid repeated freeze/thaw cycles.**

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