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GRO-α/KC/CINC-1/CXCL1

Catalog # PVGS1099

Product Information

Primary Accession	P14095
Species	Rat
Sequence	Ala25-Lys96
Purity	> 97% as analyzed by SDS-PAGE > 97% as analyzed by HPLC
Endotoxin Level	
Biological Activity	Fully biologically active when compared to standard. The biological activity determined by a chemotaxis bioassay using rat neutrophils is in a concentration range of 10.0-100.0 ng/ml.
Expression System	E. coli
Theoretical Molecular Weight	7.8 kDa
Formulation	Lyophilized from a 0.2 μm filtered solution in 20 mM PB, pH 7.4, 150 mM NaCl.
Reconstitution	It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/ml.
Storage & Stability	Upon receiving, this product remains stable for up to 6 months at -70°C or -20°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. Avoid repeated freeze-thaw cycles.

Additional Information

Gene ID	81503
Other Names	Growth-regulated alpha protein, C-X-C motif chemokine 1, Cytokine-induced neutrophil chemoattractant 1, CINC-1, Platelet-derived growth factor-inducible protein KC, Cxcl1, Cinc1, Gro, Scyb1
Target Background	GRO-α/KC/CINC-1/CXCL1 has chemotactic activity for neutrophils. It may play a role in inflammation and exerts its effects on endothelial cells in an autocrine fashion. All three isoforms of GRO are CXC chemokines that can signal through the CXCR1 or CXCR2 receptors. GRO expression is inducible by serum or PDGF and/or by a variety of inflammatory mediators, such as IL-1 and TNF, in monocytes, fibroblasts, melanocytes and epithelial cells. In certain tumor cell lines, GRO is expressed constitutively.

Protein Information

Name	Cxcl1
Synonyms	Cinc1, Gro, Scyb1
Function	Has chemotactic activity for neutrophils. Contributes to neutrophil activation during inflammation.
Cellular Location	Secreted.
Tissue Location	At least expressed in the lung and trachea.