

CXCL1

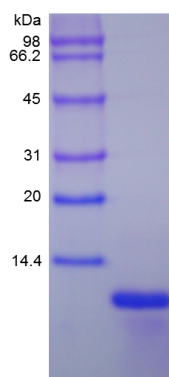
Recombinant Human GRO-alpha/CXCL1

Catalog No.	CRG500A CRG500B CRG500C	Quantity:	5 µg 25 µg 1.0 mg
Alternate Names:	FSP, GRO1, GROα, MGSA, MGSA-α, NAP-3, SCYB1, GRO1 oncogene (melanoma growth stimulating activity, α), GRO1 oncogene (melanoma growth-stimulating activity), MGSA α, chemokine (C-X-C motif) ligand 1, fibroblast secretory protein, melanoma growth stimulatory activity α		
Description:	<p>The three GRO cDNAs encode 107 amino acid precursor proteins from which the N-terminal 34 amino acid residues are cleaved to generate the mature GROs. There are no potential N-linked glycosylation sites in the amino acid sequences. 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. Similar to other α chemokines, the three GRO proteins are potent neutrophil attractants and activators. In addition, these chemokines are also active toward basophils. All three GROs can bind with high affinity to the IL-8 receptor type B.</p> <p>Recombinant Human GRO-α/CXCL1 is a single, non-glycosylated polypeptide chain containing 73 amino acids.</p>		
Gene ID:	2919		
Source:	<i>E. coli</i>		
Molecular Weight:	~7.8 kDa		
Formulation:	Lyophilized from a 0.2 µm filtered concentrated solution in 20 mM PB, pH 7.4 + 150 mM NaCl.		
Purity:	>97.0% as determined by HPLC and SDS-PAGE 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 human peripheral blood neutrophils is <50 ng/ml.		
Specific Activity:	>2.0 x 10 ⁴ IU/mg		
Amino Acid Sequence:	ASVATELRQC CLQTLQGIHP KNIQSVNVKS PGPHCAQTEV IATLKNGRKA CLNPASPIVK KIIKMLNSD KSN		
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, but should be kept desiccated at -20°C for long term storage. Upon 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. **Avoid repeated freeze/thaw cycles.**

SDS-PAGE



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Cell Sciences®
65 Parker Street
Unit 11
Newburyport, MA 01950

Toll Free: 888-769-1246
Phone: 978-572-1070
Fax: 978-992-0298

E-mail: info@cellsciences.com
Website: www.cellsciences.com