

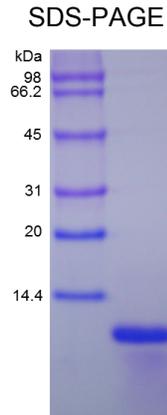
CXCL1

Recombinant Human GRO-alpha/CXCL1

Catalog No.	CRG500A CRG500B CRG500C	Quantity:	5 µg 25 µg 1.0 mg
Alternate Names:	FSP, GRO1, GROa, MGSA, MGSA-a, NAP-3, SCYB1, GRO1 oncogene (melanoma growth stimulating activity, alpha), GRO1 oncogene (melanoma growth-stimulating activity), MGSA alpha, chemokine (C-X-C motif) ligand 1, fibroblast secretory protein, melanoma growth stimulatory activity alpha		
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 alpha 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-alpha/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:	ASVATELRCQ 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.**



NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.



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