

---

## Product Data Sheet

---

Product Name: GRO a Human, His  
 Cat. No.: GP21107  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Growth-regulated protein alpha; CXCL1; Melanoma growth stimulatory activity; MGSA; Neutrophil-activating protein 3; NAP-3; GRO-alpha(1-73); chemokine (C-X-C motif) ligand 1; GRO1; GROa; SCYB1; MGSA-a; MGSA alpha.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MASVATELRC QCLQTLQGIH PKNIQSVNVK SPGPHCAQTE VIATLKNGRK ACLNPASPIV KKIIEKMLNS DKS.		
Formulation	CXCL1 in 20mM Tris-HCL pH-8 and 10% glycerol.		

### Introduction

Chemokine (C-X-C motif) ligand 1 (CXCL1) is a small cytokine belonging to the CXC chemokine family that was previously called GRO1 oncogene, Neutrophil-activating protein 3 (NAP-3) and melanoma growth stimulating activity, alpha (MSG-?). It is secreted by human melanoma cells, has mitogenic properties and is implicated in melanoma pathogenesis. CXCL1 is expressed by macrophages, neutrophils and epithelial cells, and has neutrophil chemoattractant activity. CXCL1 plays a role in spinal cord development by inhibiting the migration of oligodendrocyte precursors and is involved in the processes of angiogenesis, inflammation, wound healing, and tumorigenesis. This chemokine elicits its effects by signaling through the chemokine receptor CXCR2. The gene for CXCL1 is located on human chromosome 4 amongst genes for other CXC chemokines.

### Stability

Liquid CXCL1 although stable at 10°C for 1 week, should be stored 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.

**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

---

---

## Product Data Sheet

---

### Background

CXCL1 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 94 amino acids (35-107) and having a molecular mass of 10.1 kDa. The CXCL1 is fused to a 20 amino acid His-Tag at N-terminus and purified by proprietary chromatographic techniques.

**Caution: Product has not been fully validated for medical applications. For research use only.**

**Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com**

**Address: 10292 Central Ave. #205, Montclair, CA, USA**