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**Product Data Sheet**


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Product Name: GRO1/KC Mouse, His  
 Cat. No.: GP21109  
 Batch No.: 1

**Product Data**

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	Growth-regulated alpha protein; CXCL1; Platelet-derived growth factor-inducible protein KC; Secretory protein N51; KC; Fsp; N51; gro; Gro1; Mgsa; Scyb1; chemokine (C-X-C motif) ligand 1.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSHMAPIAN ELRCQCLQTM AGIHLKNIQS LKVLPSGPHC TQTEVIATLK NGREACLDPE APLVQKIVQK MLKGVPK.		
Formulation	GRO1 protein solution (0.5mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 10% glycerol and 0.1M NaCl.		

**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 (MSGa-a). 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**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

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

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

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### Background

GRO1/KC Mouse Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 97 amino acids (25-96 a.a.) and having a molecular mass of 10.5kDa. GRO1 is fused to a 25 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

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