
Product Data Sheet

Product Name: GRO1/KC Mouse
 Cat. No.: GP21108
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
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	APIANELRCQ CLQTMAGIHL KNIQSLKVLP SGPHCTQTEV IATLKNGREACL DPEAPLVQ KIVQKMLKGV PK.		
Solubility	It is recommended to reconstitute the lyophilized GRO1 Recombinant in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The protein solution (1mg/ml) was lyophilized from 20mM phosphate buffer pH-7.4 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.

Biological Activity

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

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The biological activity was determined by measuring the ability to chemoattract human neutrophils at a concentration of 10ng/ml-100ng/ml.

Stability

Lyophilized KC Mouse although stable at room temperature for 3 weeks, should be stored desiccated below -18°C . Upon reconstitution CXCL1 should be stored at 4°C between 2-7 days and for future use 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.

Background

KC Mouse Recombinant also known as N51 and GRO-1 produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 72 amino acids and having a molecular mass of approximately 7.8 kDa. The GRO-1 is purified by proprietary chromatographic techniques.

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