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### Recombinant human GRO alpha/CXCL1 protein

Catalog Number: CXC0901

#### **PRODUCT INFORMATION**

#### **Expression system**

E.coli

#### **Domain**

35-107aa

#### UniProt No.

P09341

#### **NCBI Accession No.**

NP 001502

#### **Alternative Names**

SCYB1, Neutrophil-activating protein 3, NAP-3, MGSA, Melanoma growth stimulatory activity, Growth-regulated alpha protein, GRO-alpha(1-73), GROA, GRO1 oncogene, GRO1, GRO, FSP, Fibroblast secretory protein, C-X-C motif chemokine ligand 1

#### **PRODUCT SPECIFICATION**

#### **Molecular Weight**

10.1 kDa (94aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

#### Concentration

1mg/ml (determined by absorbance at 280nm)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol

#### **Purity**

> 90% by SDS-PAGE

#### **Endotoxin level**

< 1 EU per 1ug of protein (determined by LAL method)

#### Tag

His-Tag

### **Application**

SDS-PAGE

#### **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

CXCL1/GROa is a growth factor for melanoma cells and a chemotaxin for neutrophils. Similar to other alpha chemokines, this protein is potent neutrophil attractant and activator and is also active toward basophils. In



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addition, CXCL1 protein may be a therapeutic target as well as a diagnostic marker in ovarian cancer. Recombinant CXCL1 protein was expressed in E. coli and purified by using conventional chromatography techniques

#### **Amino acid Sequence**

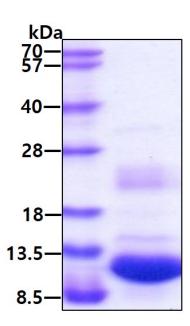
MGSSHHHHHH SSGLVPRGSH MASVATELRC QCLQTLQGIH PKNIQSVNVK SPGPHCAQTE VIATLKNGRK ACLNPASPIV KKIIEKMLNS DKSN

#### **General References**

Kawanishi H, et al. (2008) Clin Cancer Res., 2579-87 Yang HT, et al. (2008) Cell Signal, 375-80 Yang G, et al. (2006) Proc Natl Acad Sci u S A, 16472-7

#### **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

