

## Growth-regulated alpha protein (CXCL1), Rat

**Cat.no.** PK0123

**Product size:** 5ug 25ug 1mg

**Source:** HEK 293

**Species:** Rat

**Biological Activity:** Active, measured in a functional assay using HUVEC cells.

**Molecular Weight:** ~7.8 kDa, observed by reducing SDS-PAGE.

**Formulation:** Lyophilized after extensive dialysis against PBS.

**Reconstitution:** Reconstituted in ddH<sub>2</sub>O at 100 µg/mL.

**Purity:** > 95% as analyzed by SDS-PAGE and HPLC.

**Endotoxin Level:** < 0.2 EU/µg, determined by LAL method.

**Storage:** Lyophilized recombinant Rat Growth-regulated alpha protein (CXCL1) remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Rat Growth-regulated alpha protein (CXCL1) should be stable up to 1 week at 4°C or up to 2 months at -20°C.

**Description:** Growth-regulated alpha protein (CXCL1) has chemotactic activity for neutrophils. It may play a role in inflammation and exerts its effects on endothelial cells in an autocrine fashion. All three isoforms of GRO are CXC chemokines that can signal through the CXCR1 or CXCR2 receptors. 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.

**Amino Acid Sequence:**

00001 APVANELRCQ CLQTVAGIHF KNIQSLKVMP PGPHTQTEV

00041 IATLKNGREA CLDPEAPMVQ KIVQKMLKGV PK

**Synonyms:** CXCL1, GRO, GRO1, GROA, MGSA, SCYB1, Growth-regulated alpha protein, C-X-C motif chemokine 1, GRO-alpha, Melanoma growth stimulatory activity, MGSA, Neutrophil-activating protein 3, NAP-3, NAP3, GRO-α, GROα

**Note:** For research use only, not for use in diagnostic procedure.