

## Animal-Free GRO-alpha/CXCL1 Protein, Human (His)

<b>Cat. No.:</b>	HY-P700040AF
<b>Synonyms:</b>	GRO- $\alpha$ /CXCL1; NAP-3; MGSA; Growth-regulated alpha protein
<b>Species:</b>	Human
<b>Source:</b>	E. coli
<b>Accession:</b>	P09341 (A35-N107)
<b>Gene ID:</b>	2919
<b>Molecular Weight:</b>	Approximately 8.67 kDa

### PROPERTIES

<b>AA Sequence</b>	A S V A T E L R C Q    C L Q T L Q G I H P    K N I Q S V N V K S    P G P H C A Q T E V I A T L K N G R K A    C L N P A S P I V K    K I I E K M L N S D    K S N
<b>Biological Activity</b>	Measure by its ability to chemoattract BaF3 cells transfected with human CXCR2. The ED <sub>50</sub> for this effect is <3 ng/mL.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a solution containing 1X PBS, pH 7.4.
<b>Endotoxin Level</b>	<0.1 EU per 1 $\mu$ g of the protein by the LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	GRO-alpha/CXCL1 protein exhibits chemotactic activity for neutrophils and may play a role in inflammation, exerting its effects on endothelial cells in an autocrine fashion. In vitro studies indicate that processed forms of GRO-alpha, namely GRO-alpha(4-73), GRO-alpha(5-73), and GRO-alpha(6-73), display a significantly enhanced chemotactic activity, being 30-fold higher compared to the full-length protein.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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