

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

Cat. No.:	HY-P700167AF
Synonyms:	rMuGRO- α /CXCL1; Growth-regulated alpha protein; C-X-C motif chemokine 1; KC; HSF
Species:	Mouse
Source:	E. coli
Accession:	P12850 (N29-K96)
Gene ID:	14825
Molecular Weight:	Approximately 7.45 kDa

PROPERTIES

AA Sequence	<p> N E L R C Q C L Q T M A G I H L K N I Q S L K V L P S G P H C T Q T E V I A T L K N G R E A C L D P E A P L V Q K I V Q K M L K G V P K </p>
Biological Activity	The ED ₅₀ is <15 ng/mL as measure by its ability to chemoattract BaF3 cells transfected with human CXCR2.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 50 mM Tris and 150 mM NaCl, pH 8.5.
Endotoxin Level	<0.1 EU per 1 μ g of the protein by the LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 10 μ g/mL in ddH ₂ O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	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.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	GRO-alpha (CXCL1) Protein exhibits chemotactic properties, attracting neutrophils and contributing to their activation during inflammatory responses. Additionally, this hematoregulatory chemokine displays the ability to suppress the proliferation of hematopoietic progenitor cells, highlighting its intricate role in regulating hematopoiesis. Notably, the truncated form KC(5-72) exhibits significantly enhanced hematopoietic activity in vitro.
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Caution: Product has not been fully validated for medical applications. For research use only.

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