

Animal-Free GRO-gama/CXCL3 Protein, Human (His)

Cat. No.:	HY-P72678AF
Synonyms:	C-X-C motif chemokine 3; GRO-gamma; MIP2-beta; CXCL3; GRO3; GROG; SCYB3
Species:	Human
Source:	E. coli
Accession:	P19876 (A35-N107)
Gene ID:	2921
Molecular Weight:	Approximately 8.67 kDa

PROPERTIES

AA Sequence	A S V V T E L R C Q C L Q T L Q G I H L K N I Q S V N V R S P G P H C A Q T E V I A T L K N G K K A C L N P A S P M V Q K I I E K I L N K G S T N
Biological Activity	Measure by its ability to chemoattract BaF3 cells transfected with human CXCR2. The ED ₅₀ for this effect is <2 ng/mL.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 1X PBS, pH 7.4.
Endotoxin Level	<0.1 EU per 1 µg of the protein by the LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
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	The GRO-gama/CXCL3 protein acts as a ligand for CXCR2, demonstrating chemotactic activity for neutrophils. This protein may play a role in inflammation, exerting its effects on endothelial cells in an autocrine fashion. Notably, in vitro studies reveal that the processed form GRO-gamma(5-73) exhibits a fivefold higher chemotactic activity for neutrophilic granulocytes, suggesting a potential regulatory mechanism for neutrophil recruitment and function.
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Caution: Product has not been fully validated for medical applications. For research use only.

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