

Animal-Free GRO-beta/CXCL2 Protein, Human (His)

Cat. No.:	HY-P700045AF
Synonyms:	GRO-β/CXCL2; C-X-C motif chemokine 2; MIP2-alpha; HSF
Species:	Human
Source:	E. coli
Accession:	P19875 (A35-N107)
Gene ID:	2920
Molecular Weight:	Approximately 8.7 kDa

PROPERTIES

AA Sequence	A P L A T E L R C Q C L Q T L Q G I H L K N I Q S V K V K S P G P H C A Q T E V I A T L K N G Q K A C L N P A S P M V K K I I E K M L K N G K S N
Biological Activity	Measure by its ability to chemoattract BaF3 cells transfected with human CXCR2. The ED ₅₀ for this effect is <10 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	GRO-beta/CXCL2, generated by activated monocytes and neutrophils, is prominently expressed at sites of inflammation. This chemokine exhibits hematoregulatory properties, as it has been observed to suppress the proliferation of hematopoietic progenitor cells in vitro. Particularly noteworthy is the heightened hematopoietic activity displayed by GRO-beta(5-73), emphasizing its significant role in regulating hematopoiesis.
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Caution: Product has not been fully validated for medical applications. For research use only.

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