

Animal-Free G-CSF Protein, Mouse (His)

Cat. No.:	HY-P700178AF
Synonyms:	rMuG-CSF; CSF-3; MGI-1G; Pluripoietin; Molgramostin; Sargramostim
Species:	Mouse
Source:	E. coli
Accession:	P09920 (V31-A208)
Gene ID:	12985
Molecular Weight:	Approximately 19.76 kDa

PROPERTIES

AA Sequence	<p>V P L V T V S A L P P S L P L P R S F L L K S L E Q V R K I Q A S G S V L L E Q</p> <p>L C A T Y K L C H P E E L V L L G H S L G I P K A S L S G C S S Q A L Q Q T Q C</p> <p>L S Q L H S G L C L Y Q G L L Q A L S G I S P A L A P T L D L L Q L D V A N F A</p> <p>T T I W Q Q M E N L G V A P T V Q P T Q S A M P A F T S A F Q R R A G G V L A I</p> <p>S Y L Q G F L E T A R L A L H H L A</p>
Biological Activity	Measure by its ability to induce proliferation in NFS-60 cells. The ED ₅₀ for this effect is <50 pg/mL. The specific activity of recombinant mouse G-CSF is >2 x 10 ⁷ IU/mg.
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 G-CSF Protein, a member of the granulocyte/macrophage colony-stimulating factors, plays a crucial role in hematopoiesis by regulating the production, differentiation, and function of two closely related white cell populations in the blood: granulocytes and monocytes-macrophages. Specifically, this cytokine induces the generation of granulocytes, contributing to the intricate orchestration of hematopoietic processes.
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Caution: Product has not been fully validated for medical applications. For research use only.

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