

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

Cat. No.:	HY-P700083AF
Synonyms:	CSF-3; MGI-1G; GM-CSF beta; pluripoiectin
Species:	Human
Source:	E. coli
Accession:	P09919-2 (T31-P204)
Gene ID:	1440
Molecular Weight:	Approximately 19.48 kDa

PROPERTIES

AA Sequence	<p>T P L G P A S S L P Q S F L L K C L E Q V R K I Q G D G A A L Q E K L C A T Y K</p> <p>L C H P E E L V L L G H S L G I P W A P L S S C P S Q A L Q L A G C L S Q L H S</p> <p>G L F L Y Q G L L Q A L E G I S P E L G P T L D T L Q L D V A D F A T T I W Q Q</p> <p>M E E L G M A P A L Q P T Q G A M P A F A S A F Q R R A G G V L V A S H L Q S F</p> <p>L E V S Y R V L R H L A Q P</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 human G-CSF is >2 x 10 ⁷ IU/mg
Appearance	Lyophilized powder.
Formulation	Lyophilized from a solution containing 1X PBS, pH 7.4, trehalose.
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. 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 from date of receipt. 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	Granulocyte/macrophage colony-stimulating factor (G-CSF) is a cytokine crucial for hematopoiesis, exerting control over the production, differentiation, and function of two key white cell populations: granulocytes and monocytes-macrophages. As a monomeric protein, G-CSF specifically induces the development of granulocytes, contributing to the regulation of the immune system and blood cell formation.
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Caution: Product has not been fully validated for medical applications. For research use only.

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