

GM-CSF Protein, Mouse

Cat. No.:	HY-P7361
Synonyms:	rMuGM-CSF; CSF-2; GM-CSF
Species:	Mouse
Source:	E. coli
Accession:	Q14AD9 (A18-K141)
Gene ID:	12981
Molecular Weight:	Approximately 15 kDa

PROPERTIES

AA Sequence	<p>A P T R S P I T V T R P W K H V E A I K E A L N L L D D M P V T L N E E V E V V</p> <p>S N E F S F K K L T C V Q T R L K I F E Q G L R G N F T K L K G A L N M T A S Y</p> <p>Y Q T Y C P P T P E T D C E T Q V T T Y A D F I D S L K T F L T D I P F E C K K</p> <p>P V Q K</p>
Biological Activity	<p>1. The ED₅₀ is <50 pg/mL as measured by murine FDC-P1 cells, corresponding to a specific activity of >2 × 10⁷ units/mg.</p> <p>2. Measured in a cell proliferation assay using THP-1 human erythroleukemic cells. The ED₅₀ for this effect is 7.539 pg/mL, corresponding to a specific activity is 1.326 × 10⁸ units/mg.</p>
Appearance	Lyophilized powder
Formulation	Lyophilized after extensive dialysis against PBS or 20 mM Tris-HCl, 1 mM EDTA, pH 8.0 or 50 mM Tris-HCl, 300 mM NaCl, 200 mM arginine, pH 8.0.
Endotoxin Level	<0.2 EU/μg, determined by 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. 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 is a member of colony-stimulating factors which regulates proliferation, differentiation, and survival of hematopoietic cells including mature neutrophils, macrophages, and dendritic cells ^[1] .
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REFERENCES

[1]. Malekian R, et al. High-yield Production of Granulocyte-macrophage Colony-stimulating Factor in E. coli BL21 (DE3) By an Auto-induction Strategy. Iran J Pharm Res. 2019 Winter;18(1):469-478.

Caution: Product has not been fully validated for medical applications. For research use only.

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