

## Animal-Free GM-CSF Protein, Mouse (His)

<b>Cat. No.:</b>	HY-P700180AF
<b>Synonyms:</b>	Granulocyte-Macrophage Colony-Stimulating Factor; GM-CSF; Colony-Stimulating Factor; CSF; Molgramostin; Sargramostim; CSF2; GMCSF
<b>Species:</b>	Mouse
<b>Source:</b>	E. coli
<b>Accession:</b>	Q14AD9 (A18-K141)
<b>Gene ID:</b>	12981
<b>Molecular Weight:</b>	Approximately 15.1 kDa

### PROPERTIES

<b>AA Sequence</b>	<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>
<b>Biological Activity</b>	Measure by its ability to induce proliferation in FDC-P1 cells. The ED <sub>50</sub> for this effect is <50 pg/mL. The specific activity of recombinant mouse GM-CSF is approximately >2x10 <sup>5</sup> IU/mg.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a solution containing 1X PBS, pH 7.4.
<b>Endotoxin Level</b>	<0.1 EU per 1 µg of the protein by the LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH <sub>2</sub> O.
<b>Storage &amp; Stability</b>	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.
<b>Shipping</b>	Room temperature in continental US; may vary elsewhere.

### DESCRIPTION

<b>Background</b>	GM-CSF Protein is a cytokine renowned for its ability to promote the growth and differentiation of hematopoietic precursor cells from diverse lineages, such as granulocytes, macrophages, eosinophils, and erythrocytes. It functions as a monomer and interacts with the GM-CSF receptor complex, which consists of two head-to-head hexamers containing two alpha, two beta, and two ligand subunits, ultimately forming a dodecamer structure.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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