

## GM-CSF Protein, Porcine

<b>Cat. No.:</b>	HY-P79256
<b>Synonyms:</b>	Granulocyte-macrophage colony-stimulating factor; CSF2; GM-CSF; Colony-stimulating factor; CSF; Granulocyte Macrophage Growth Factor
<b>Species:</b>	Porcine
<b>Source:</b>	E. coli
<b>Accession:</b>	Q29118 (A18-K144)
<b>Gene ID:</b>	397208
<b>Molecular Weight:</b>	Approximately 17.02 kDa

### PROPERTIES

<b>AA Sequence</b>	<p>A P T R P P S P V T      R P W Q H V D A I K      E A L S L L N N S N      D T A A V M N E T V</p> <p>D V V C E M F D P Q      E P T C V Q T R L N      L Y K Q G L R G S L      T R L K S P L T L L</p> <p>A K H Y E Q H C P L      T E E T S C E T Q S      I T F K S F K D S L      N K F L F T I P F D</p> <p>C W G P V K K</p>
<b>Biological Activity</b>	Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED <sub>50</sub> for this effect is 8.771 ng/mL, corresponding to a specific activity is 1.14×10 <sup>5</sup> U/mg.
<b>Appearance</b>	Lyophilized powder.
<b>Formulation</b>	Lyophilized from a 0.2 μm filtered solution of 20 mM PB, 150 mM NaCl, pH 7.8.
<b>Endotoxin Level</b>	<1 EU/μg, determined by LAL method.
<b>Reconstitution</b>	It is not recommended to reconstitute to a concentration less than 10 μg/mL in ddH <sub>2</sub> O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
<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 serves as a potent cytokine, orchestrating the growth and differentiation of hematopoietic precursor cells across diverse lineages, including granulocytes, macrophages, eosinophils, and erythrocytes. Structurally, GM-CSF exists as a monomer, and its signaling is mediated through a dodecameric complex. This complex comprises two head-to-head hexamers, each featuring two alpha, two beta, and two ligand subunits, underscoring the intricacy of the receptor assembly and the specificity of GM-CSF in modulating cellular responses.
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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