

GM-CSF Protein, Feline (M36I, T56A, K126N)

Cat. No.:	HY-P79432
Synonyms:	GM-CSF; CSF2; MGC131935; Granulocyte Macrophage Growth Factor
Species:	Others
Source:	E. coli
Accession:	AAC06041 (A18-K144, M36I, T56A, K126N)
Gene ID:	493805
Molecular Weight:	Approximately 14.6 kDa

PROPERTIES

AA Sequence	<p>A P T S S P S S V T R P W Q H V D A I K E A L S L L N N S S E I T A V M N E A V</p> <p>E V V S E M F D P E E P K C L Q T H L K L Y E Q G L R G S L I S L K E P L R M M</p> <p>A N H Y K Q H C P L T P E T P C E T Q T I T F K N F K E N L K D F L F N N P F D</p> <p>C W G P D Q K</p>
Biological Activity	Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED ₅₀ for this effect is 10-26 ng/mL.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS with BSA as a carrier protein or 50 mM Tris-HCL, 300 mM NaCl, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 10 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	<p>Granulocyte-Macrophage Colony-Stimulating Factor (GM-CSF) is a cytokine known for its role in stimulating the growth and differentiation of hematopoietic precursor cells across various lineages, including granulocytes, macrophages, eosinophils, and erythrocytes. Structurally, GM-CSF exists as a monomer. Its signaling mechanism involves interaction with the GM-CSF receptor complex, which forms a dodecamer consisting of two head-to-head hexamers involving two alpha, two beta, and two ligand subunits. Through this intricate receptor complex, GM-CSF orchestrates the regulation of hematopoiesis, contributing to the development and maturation of diverse blood cell types.</p>
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Caution: Product has not been fully validated for medical applications. For research use only.

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