GM-CSF Protein, Bovine (P. pastoris, His-Myc)

Cat. No.:	HY-P700512
Synonyms:	colony stimulating factor 2 (granulocyte-macrophage); GMCSF; MGC131935; MGC138897; granulocyte-macrophage colony-stimulating factor; CSF; molgramostin; sargramostim; colony-stimulating factor; granulocyte-macrophage colony stimulating factor
Species:	Bovine
Source:	P. pastoris
Accession:	P11052 (A18-K143)
Gene ID:	281095
Molecular Weight:	18 kDa

PROPERTIES

AA Sequence	A P T R P P N T A T R P W Q H V D A I K E A L S L L N H S S D T D A V M N D T E V V S E K F D S Q E P T C L Q T R L K L Y K N G L Q G S L T S L M G S L T M M A T H Y E K H C P P T P E T S C G T Q F I S F K N F K E D L K E F L F I I P F D C W E P A Q K
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM Tris-HCl, 0.5 M NaCl, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O.
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	The GM-CSF Protein, a pivotal cytokine, plays a fundamental role in stimulating the growth and differentiation of hematopoietic precursor cells from diverse lineages, encompassing granulocytes, macrophages, eosinophils, and erythrocytes. Existing as a monomer, GM-CSF exerts its biological effects through the GM-CSF receptor complex, which forms a dodecamer comprising two head-to-head hexamers of two alpha, two beta, and two ligand subunits. This intricate receptor complex underscores the multi-faceted nature of GM-CSF in orchestrating cellular responses critical for hematopoiesis and immune function.

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

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