

## GMP GM-CSF Protein, Human (HEK293, His)

Cat. No.:	HY-P70567G
Synonyms:	Granulocyte-macrophage colony-stimulating factor; Colony-stimulating factor; CSF; Molgramostin and Sargramostim
Species:	Human
Source:	HEK293
Accession:	P04141 (A18-E144)
Gene ID:	1437
Molecular Weight:	17-30 kDa

### PROPERTIES

AA Sequence	<p>A P A R S P S P S T    Q P W E H V N A I Q    E A R R L L N L S R    D T A A E M N E T V</p> <p>E V I S E M F D L Q    E P T C L Q T R L E    L Y K Q G L R G S L    T K L K G P L T M M</p> <p>A S H Y K Q H C P P    T P E T S C A T Q I    I T F E S F K E N L    K D F L L V I P F D</p> <p>C W E P V Q E</p>
Biological Activity	The specific activity is $>2 \times 10^7$ IU/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 $\mu$ m filtered solution of 20 mM PB, 150 mM NaCl, pH 7.4.
Endotoxin Level	<0.05 EU/ $\mu$ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in injection water.
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>GMP GM-CSF Protein functions as a pivotal cytokine, fostering the growth and differentiation of hematopoietic precursor cells spanning diverse lineages, such as granulocytes, macrophages, eosinophils, and erythrocytes. In its monomeric form, GMP GM-CSF serves as a signaling molecule, orchestrating a complex receptor assembly. This receptor complex takes the shape of a dodecamer, consisting of two head-to-head hexamers, each composed of two alpha, two beta, and two ligand subunits. This structural intricacy underscores the specificity and regulatory role of GMP GM-CSF in directing cellular responses within the hematopoietic system.</p>
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**Caution: Product has not been fully validated for medical applications. For research use only.**

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: [tech@MedChemExpress.com](mailto:tech@MedChemExpress.com)

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA