

GM-CSF Protein, Mouse (HEK293, Fc)

Cat. No.:	HY-P73082
Synonyms:	Granulocyte-macrophage colony-stimulating factor; GM-CSF; CSF; CSF-2
Species:	Mouse
Source:	HEK293
Accession:	P01587 (A18-K141)
Gene ID:	12981
Molecular Weight:	45-60 kDa

PROPERTIES

AA Sequence	<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 G Q K</p>
Biological Activity	Immobilized Mouse GM-CSF R alpha, His Tag at 0.5 µg/mL (100 µl/well) on the plate. Dose response curve for Mouse GM-CSF, hFc Tag with the EC ₅₀ of <2.8 ng/mL determined by ELISA.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, PH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O.
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	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.

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

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