


Mouse GM-CSF protein

Cat #: PRP2116

Size: 20 µg /50 µg/100 µg /1 mg

Product Information

	Product Name: Mouse GM-CSF protein		
	Reconstitution: Use the buffer we provided to reconstitute the lyophilized Mouse GM-CSF protein		
REF	Catalog Number: PRP2116	LOT	Lot Number: Refer to product label
	Purity: ≥90 % as determined by SDS-PAGE		
	Storage: Store at -20°C		Preparation method: HEK293 Cells
	Shipping: The product is shipped at ambient temperature.		

Background: The granulocyte-macrophage colony-stimulating factor (GM-CSF) is an important hematopoietic growth factor and immune modulator. GM-CSF also has profound effects on the functional activities of various circulating leukocytes. It is produced by a variety of cell types including T cells, macrophages, endothelial cells and fibroblasts upon receiving immune stimuli. Although GM-CSF is produced locally, it can act in a paracrine fashion to recruit circulating neutrophils, monocytes and lymphocytes to enhance their functions in host defense. GM-CSF was initially classified as a hematopoietic growth factor. However, unlike its close relatives macrophage CSF (M-CSF) and granulocyte CSF (G-CSF), the majority of myeloid cells do not require GM-CSF for steady-state myelopoiesis. Instead, in inflammation, GM-CSF serves as a communication conduit between tissue-invading lymphocytes and myeloid cells. Even though lymphocytes are in all likelihood the instigators of chronic inflammatory disease, GM-CSF-activated phagocytes are well equipped to cause tissue damage.

Sequence: Amino acid sequence derived from Mouse GM-CSF protein isoform (P01587, Met1-Lys141) was expressed.

Protein length: The recombinant Mouse GM-CSF protein consists of 128 amino acids and has a predicted molecular mass of 14.6 kDa. The apparent molecular mass of the Mouse GM-CSF protein is approximately 15-25 kDa in SDS-PAGE under reducing conditions.

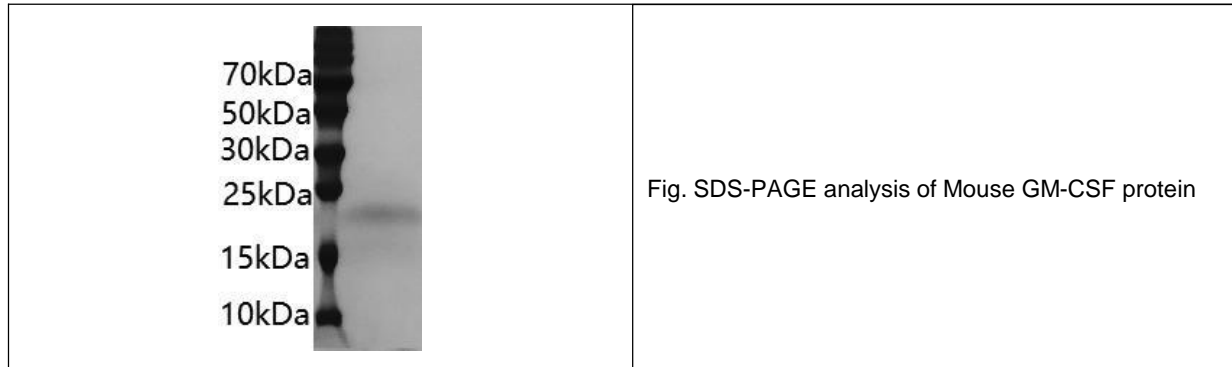
Biological Activity: Measured by its ability to induce proliferation in FDC-P1 cells with a linear range of 0.009-2.5 ng/mL.

Endotoxin: < 1 EU per µg of the protein as determined by the LAL method.

Formulation: Lyophilized from sterile PBS, pH 7.4.

Storage Instructions: Lyophilized Mouse GM-CSF protein product should be stored desiccated below -18°C. Upon reconstitution, the protein should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Usage notes: Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized Mouse GM-CSF protein using the buffer we provided not less than 100 µg/mL, which can then be further diluted to other aqueous solutions.



Note: The product listed herein is for research use only and is not intended for use in human or clinical diagnosis. Suggested applications of our products are not recommendations to use our products in violation of any patent or as a license. We cannot be responsible for patent infringements or other violations that may occur with the use of this product.