


Mouse GM-CSF protein

Cat #: PRP1151

Size: 5µg/20µg/100µg/1mg

Product Information

	Product Name: Mouse GM-CSF protein		
REF	Catalog Number: PRP1151	LOT	Lot Number: Refer to product label
	Purity: > 98 % as determined by SDS-PAGE		
	Storage: Store at -20°C		Preparation method: E.coli
	Shipping: The product is shipped at ambient temperature.		

Background: Granulocyte-macrophage colony-stimulating factor (GM-CSF) is one of an array of cytokines with pivotal roles in embryo implantation and subsequent development. Several cell lineages in the reproductive tract and gestational tissues synthesise GM-CSF under direction by ovarian steroid hormones and signalling agents originating in male seminal fluid and the conceptus. The pre-implantation embryo, invading placental trophoblast cells and the abundant populations of leukocytes controlling maternal immune tolerance are all subject to GM-CSF regulation. GM-CSF stimulates the differentiation of hematopoietic progenitors to monocytes and neutrophils, and reduces the risk for febrile neutropenia in cancer patients.

Sequence: Amino acid sequence derived from Mouse M-CSF (Ala18-Lys141)(P01587) was expressed with 6×His tag at the N-terminus.

Protein length: The recombinant Mouse M-CSF consists of 124 amino acids and predicts a molecular mass of 15.1 KDa .

Biological Activity: Measure by its ability to induce proliferation in FDC-P1 cells. The ED₅₀ for this effect is <50 pg/mL. The specific activity of recombinant Mouse M-CSF is approximately >2 x 10⁷ IU/mg.

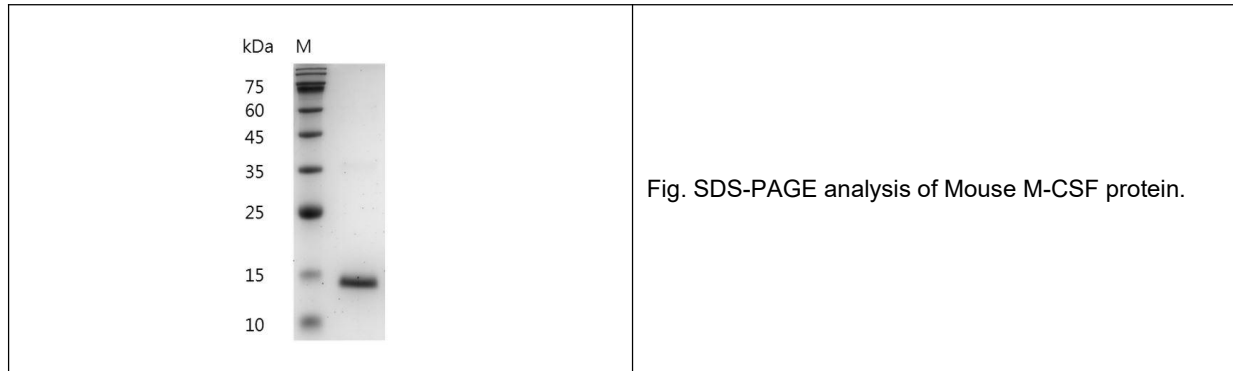
Endotoxin: < 0.1 EU per µg of the protein as determined by the LAL method.

Formulation: Lyophilized from sterile PBS, pH 7.4.

Storage Instructions: Lyophilized 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 (5% HSA , 10%FBS or 0.1%BSA). Please prevent freeze-thaw cycles.

Usage notes: Always centrifuge tubes before opening. It is recommended to reconstitute the lyophilized recombinant Mouse

M-CSF protein to a concentration of 0.1-1 mg/mL in sterile ddH₂O, and keep at room temperature for at least 20 min to fully dissolve. Please avoid vortex vigorously.



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