


Rat GM-CSF Protein

Cat #:PRP1103

Size:5 µg/20 µg/100 µg/1 mg

Product Information

	Product Name: Rat GM-CSF Protein		
REF	Catalog Number: PRP1103	LOT	Lot Number: Refer to product label
	Purity: > 98 % as determined by SDS-PAGE		
	Storage: Store at -20°C		Preparation method: <i>E.coli</i>
	Shipping: The product is shipped at ambient temperature.		

Background: Granulocyte-Macrophage Colony Stimulating Factor (GM-CSF) is secreted by a number of different cell types (including activated T cells, B cells, macrophages, mast cells, endothelial cells and fibroblasts) in response to cytokine or immune and inflammatory stimulation. It was initially characterized as a growth factor that can support the in vitro colony formation of granulocyte-macrophage progenitors and has functions of stimulates the growth and differentiation of hematopoietic precursor cells from various lineages. GM-CSF has also been reported to have a functional role on non-hematopoietic cells and can induce human endothelial cells to migrate and proliferate. Additionally, it can stimulate the proliferation of a number of tumor cell lines, including osteogenic sarcoma, carcinoma and adenocarcinoma cell lines.

Sequence: Amino acid sequence derived from Rat GM-CSF (Ala18-Lys144) (P48750) was expressed.

Protein length: The recombinant Rat GM-CSF consists of 127 amino acids and predicts a molecular mass of 14.7 kDa.

Biological Activity: Measured by its ability to induce proliferation in FDC-P1 cells with a linear range of 0.195-12.5 ng/mL.

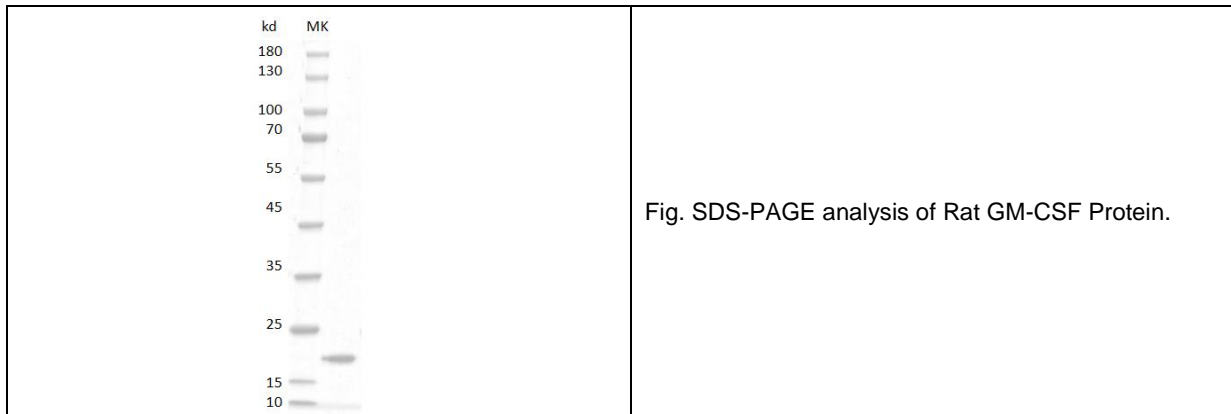
Endotoxin: <1 EU per µg of the protein by the LAL method.

Formulation: Lyophilized from 20 mM Tris-HCl, 50 mM NaCl, pH8.0.

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 p

rotein to a concentration of 0.1-1 mg/mL using the buffer we provided, and keep at room temperature for at least 20 min to fully dissolve. Please avoid vortex vigorously.



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