

Recombinant Human GM-CSF (E. coli)

Catalog #	EPT065
Expression Host	E.coli
DESCRIPTION	Recombinant Human Granulocyte-Macrophage
	Colony-Stimulating Factor is produced by our E.coli
	expression system and the target gene encoding
	Ala18-Glu144 is expressed.
Accession	P04141
Synonyms	Granulocyte-Macrophage Colony-Stimulating Factor;
	GM-CSF; Colony-Stimulating Factor; CSF;
	Molgramostin; Sargramostim; CSF2; GMCSF
Mol Mass	14.6 KDa
AP Mol Mass	13-17 KDa, reducing conditions
Purity	Greater than 95% as determined by reducing
	SDS-PAGE.
Endotoxin	Less than 0.001 ng/ μ g (0.01 EU/ μ g) as determined by
	LAL test.
FORMULATION	Lyophilized from a 0.2 μm filtered solution of PBS, pH
	7.4.



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RECONSTITUTION Always centrifuge tubes before opening.Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100µg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles. SHIPPING The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below. Lyophilized protein should be stored at < -20 ° C, STORAGE though stable at room temperature for 3 weeks. Reconstituted protein solution can be stored at 4-7°C for 2-7 days. Aliquots of reconstituted samples are stable at $< -20^{\circ}$ C for 3 months. BACKGROUND Granulocyte-Macrophage Colony Stimulating Factor (GM-CSF) was initially characterized as a growth factor that can support the in vitro colony formation of granulocyte-macrophage progenitors. It is produced by a number of different cell types (including activated T cells, B cells, macrophages, mast cells, endothelial



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cells and fibroblasts) in response to cytokine of inflammatory stimuli. **Besides** immune and granulocyte-macrophage progenitors, GM-CSF is also a growth factor for erythroid, megakaryocyte and eosinophil progenitors. On mature hematopoietic, monocytes/ macrophages and eosinophils. GM-CSF has a functional role on non-hematopoitic cells. It can induce human endothelial cells to migrate and proliferate. Additionally, GM-CSF can also stimulate the proliferation of a number of tumor cell lines, including osteogenic sarcoma, carcinoma and adenocarcinoma cell lines.

SDS-PAGE



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