



Recombinant Human Granulocyte Macrophage Colony

Stimulating Factor

(rhGM-CSF)

Catalog Number: 01-0006

Description	<p>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 cells and fibroblasts) in response to cytokine or immune and inflammatory stimuli. Besides granulocyte-macrophage progenitors, GM-CSF is also a growth factor for erythroid, megakaryocyte and eosinophil progenitors. On mature hematopoietic cells, GM-CSF is a survival factor for and activates the effector functions of granulocytes, monocytes/macrophages and eosinophils. GM-CSF has also been reported to have a functional role on non-hematopoietic 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. GM-CSF is species specific and human GM-CSF has no biological effects on mouse cells.</p>
Synonyms	CSF-2, MGI-1GM, GM-CSF, Pluripoietin-alpha, Molgramostin, Sargramostim, MGC131935, MGC138897
AA sequence	MAPARSPSPSTQPWEHVNAIQEARRLLNLSRDAAEMNETVEVISEMFDLQEP TCLQTRLE LYKQGLRGSLTKLKGPLTMMASHYKQHCPPTPETSCATQITFESFKENLKDFLLVIPDCWE PVQE
Source	<i>Escherichia coli</i>
Molecular Weight	Approximately 14.6 kDa, a single non-glycosylated polypeptide chain containing 128 amino acids.
Purity	>98% by SDS-PAGE
Physical Appearance	White lyophilized powder or solution
Formulation	Lyophilized from a 0.2 μ m filtered concentrated solution with 25mM Tris, pH 7.9
Reconstitution	Reconstitute in sterile distilled water containing 0.1% BSA to a concentration of 0.1-1.0mg/ml.
storage	Store at -20 °C after receiving. Upon reconstitution, store at 2-8 °C for up to one month. For maximal stability, aliquot and store at -20 °C. Avoid repeated freeze/ thaw cycles.
PRICE	RMB 1400 /10 μ g; RMB 5512 /50 μ g
Usage	*This product is for research use only.