GM-CSF/CSF2/CSF, Human, Recombinant

Cat. No. : PCK035

General Information

Synonyms	Granulocyte-Macrophage Colony-Stimulating Factor;GM-CSF;Colony-Stimulating Factor;CSF;Molgramostin;Sargramostim;CSF2;GMCSF
Species	Human
Expression host	E.coli
Sequence	Ala18-Glu144
Accession	P04141
Mol mass	14.6 KDa
Expiration date	12 months
Bio activity	Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 for this effect is 4-20 pg/mL.

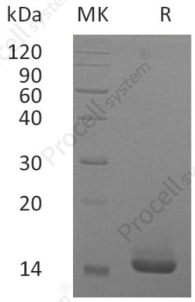
Product feature

Purity	> 95% as determined by reducing SDS-PAGE.
Endotoxin (EU/μg)	< 0.1
Storage	Lyophilized protein should be stored at -5~-20°C, stable for one year after receipt. Reconstituted protein solution can be stored at 2-8°C for 2-7 days. Aliquots of reconstituted samples are stable at -5~-20°C for 3 months.
Shipping	Ice bag
Formulation	Lyophilized from a 0.2 μm filtered solution of PBS, pH 7.4.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 μg/mL. Dissolve the lyophilized protein in sterile water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

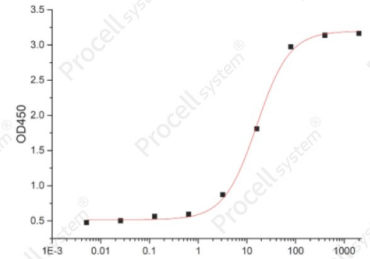
Background

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 cells and fibroblast s) in response to cytokine of immune and inflammatory stimuli. Besides granulocyte-macrophage progenitors, G M-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



Bio activity



Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED50 for this effect is 4-20 pg/mL.

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