

## Recombinant Rat GM-CSF (C-6His)

Catalog #	EPT254
Expression Host	Human Cells
DESCRIPTION	Recombinant Rat Granulocyte-Macrophage
	Colony-Stimulating Factor is produced by our
	Mammalian expression system and the target gene
	encoding Ala18-Lys144 is expressed with a 6His tag at
	the C-terminus.
Accession	P48750
Synonyms	Granulocyte-Macrophage Colony-Stimulating Factor;
	GM-CSF; Colony-Stimulating Factor;
	CSF;Molgramostin; Sargramostim; CSF2; GMCSF
Mol Mass	15.6 KDa
AP Mol Mass	17-25 KDa, reducing conditions
Purity	Greater than 95% as determined by reducing
	SDS-PAGE.
Endotoxin	Less than 0.1 ng/ $\mu$ g (1 EU/ $\mu$ g) as determined by LAL
	test.
FORMULATION	Lyophilized from a 0.2 $\mu\text{m}$ filtered solution of PBS, pH



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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 100µg/ml.

Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

SHIPPINGThe product is shipped at ambient temperature.Upon receipt, store it immediately at the temperaturelisted below.

STORAGELyophilized protein should be stored at < -20 ° C,<br/>though stable at room temperature for 3 weeks.<br/>Reconstituted protein solution can be stored at 4-7°C<br/>for 2-7 days.

Aliquots of reconstituted samples are stable at < -20° C for 3 months.

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**BACKGROUND** Granulocyte-Macrophage Colony Stimulating Factor (GM-CSF) was initially characterized as a growth factorthat can support the in vitro colony formation of granulocyte-macrophage progenitors. It is produced by anumber of different cell types (including activated



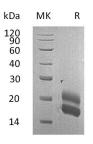
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T cells, B cells, macrophages, mast cells, endothelial cellsand fibroblasts) in response to cytokine of immune and inflammatory stimuli. Besides granulocyte-macrophageprogenitors, GM-CSF is also a growth factor for erythroid, megakaryocyte and eosinophil progenitors. Onmature hematopoietic, monocytes/ macrophages and eosinophils. GM-CSF has a functional role on nonhematopoitic cells. It can induce human endothelial cells to migrate and proliferate. Additionally, GM-CSF canalso stimulate the proliferation of a number of tumor cell lines, including osteogenic sarcoma, carcinoma andadenocarcinoma cell lines.



## **SDS-PAGE**



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