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CSF2
Recombinant Human GM-CSF / CSF2, Endotoxin Free

Catalog No.	CRO504A	**Quantity:**	10 µg
	CRO504B		50 µg
	CRO504C		1 mg
	CRO504D		100 µg

Alternate Names: Granulocyte macrophage colony-stimulating factor, GMCSF, CSF2, Pluripoietin-alpha

Description: Granulocyte macrophage colony-stimulating factor (GM-CSF) is a hematopoietic growth factor produced by various cell types such as T and B cells, macrophages, endothelial cells and fibroblasts, in response to cytokine or inflammatory stimuli. GM-CSF stimulates the development of granulocytes and macrophages, and the proliferation and development of erythroid, megakaryocyte and eosinophil progenitors. It also enhances functional activity of mature hematopoietic cells. GM-CSF is of great clinical value in reconstitution of the hematopoietic system following cancer therapy or bone marrow transplantation.

UniProt ID: P04141

Gene ID: 1437

Source: *Oryza sativa*, suspension culture void of any human, animal or viral contaminants that could jeopardize stem cell culture.

Molecular Weight: 14 kDa (127 aa), without glycosylation
26 kDa, with glycosylation

Formulation: Lyophilized from sterile filtered PBS, pH 7.2

Purity: > 95% by SDS-PAGE gel analysis.

Endotoxin Level: < 0.005 ng per µg (0.05 EU/µg) as measured by kinetic LAL assay

Biological Activity: ED_{50} < 0.2 ng/ml, determined by dose-dependent proliferation of TF-1 cells

Specific Activity: > 5.0×10^6 U/mg

Reconstitution: **Centrifuge vial prior to opening**. Reconstitute the lyophilized protein in sterile water to a concentration of no less than 100 µg/ml. The solution can be further diluted into aliquots in aqueous buffers. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). **Please note that the addition of any carrier protein into this product may introduce endotoxin. Depending upon the particular application employed, this may be undesirable.**

Storage & Stability: The lyophilized protein, though stable at room temperature for few weeks, is best stored at -20°C to -80°C. Reconstituted protein should be used immediately or stored in working aliquots at -20°C to -80°C. **Avoid repeated freeze-thaw cycles.**

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Cell Sciences®
65 Parker Street
Unit 11
Newburyport, MA 01950

Toll Free: 888-769-1246
Phone: 978-572-1070
Fax: 978-992-0298

E-mail: info@cellsciences.com
Website: www.cellsciences.com