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Understanding Life
One Protein at a Time ...

Granulocyte Macrophage Colony Stimulating Factor (GM-CSF)

Catalog No.	LT13495
Product Name	Colony stimulating factors, Recombinant Human GM-CSF (Granulocyte-macrophage colony-stimulating factor)
Description	GM-CSF is a hematopoietic growth factor that stimulates the development of neutrophils and macrophages, and promotes the proliferation and development of early erythroid megakaryocytic and eosinophilic progenitor cells. It is produced in endothelial cells, monocytes, fibroblasts and T-lymphocytes. GM-CSF inhibits neutrophil migration and enhances the functional activity of the mature end-cells. The human and murine molecules are species-specific and exhibit no cross-species reactivity. Recombinant Human GM-CSF is a 14.6 kDa globular protein consisting of 128 amino acids, containing two intramolecular disulfide bonds and two potential N-linked glycosylation sites. Molecular Weight: 14-36 kDA, glycosylated.
Expression System	Chinese Hamster Ovary cells
Endotoxin Level	Endotoxin Level < 1.0 EU per 1 µg of the protein by the LAL method Sterile filtered 0.22 um filter in 20 mM TRIS*HCl buffer pH 7.2
Biological Activity	ED50 < 0.1 ng/ml, determined by the dose dependent stimulation of the proliferation of human TF-1 cells (human erythroleukemic indicator cell line)
Amino Acid Sequence	APARSPSPST QPWEHVNAIQ EARRLLNLSR DTAAEMNETV EVISEMFDLQ EPTCLQTRLE LYKQGLRGSL TKLKGPLTMM ASHYKQHCPP TPETSCATQI ITFES-FKENL KDFLLVIPFD CWEPVQE
Storage	-20°C to -80°C