



GM-CSF Recombinant Protein

CATALOG NUMBER: 40-475

Specifications	
SPECIES:	Rat
SOURCE SPECIES:	E. coli
SEQUENCE:	MAPTRSPNPV TRPWKHVDAL KEALSLLNDM RALENEKNED VDIISNEFSI QRPTCVQTRL KLYKQGLRGN LTKLNGALTM IASHYQTNCP PTPETDCEIE VTFEDFIKN LKGFLFDIPF DCWKPVQK
TESTED APPLICATIONS:	
BIOLOGICAL ACTIVITY:	The ED50 was determined by the dose - dependent stimulation of the proliferation of Murine FDC - P1 cells is < 0.01 ng/mL, corresponding to a specific activity of > 1.0 x 10 ⁸ units/mg.

Properties	
PURITY:	Greater than 98% by SDS-PAGE gel and HPLC analyses. Endotoxin level is less than 0.1 ng per ug (1EU/ug).
PHYSICAL STATE:	Lyophilized
STORAGE CONDITIONS:	The lyophilized GM-CSF recombinant protein is stable for at least 2 years from date of receipt at -20°C. Reconstituted GM-CSF is stable for at least 3 months when stored in working aliquots with a carrier protein at -20°C. As with any protein, exposing GM-CSF recombinant protein to repeated freeze / thaw cycles is not recommended. When working with proteins care should be taken to keep recombinant protein at a cool and stable temperature.

Additional Info	
ALTERNATE NAMES:	Gmcsf, Gm-csf, Csfgm, Granulocyte-macrophage colony-stimulating factor, Colony-stimulating factor, GM-CSF
ACCESSION NO.:	NP_446304.1
PROTEIN GI NO.:	449083355

Background

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 by 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 rat GM-CSF is a 14.5 kDa globular protein consisting of 128 amino acids residues.

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