

Recombinant Rat Granulocyte Macrophage Colony Stimulating Factor (rr GM-CSF)

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.

Synonyms : CSF-2, MGI-1GM, pluripoietin-alpha

Source: *Escherichia coli*

AA Sequence: MAPTRSPNPV TRPWKHVDAI KEALSLNNDM RALENEKNED VDIISNEFSI
QRPTCVQTRL KLYKQGLRGN LTKLNGALTM IASHYQTNCP PTPETDCEIE
VTTFEDFIKN LKGFLFDIPF DCWKPVQK

Formulation: Lyophilisate from a 0.22 µm filtered carrier free solution in PBS.

Reconstitution: Reconstitute in sterile endotoxin free water not less than 100 µg/ml

Stability: The lyophilized protein is stable for at least 2 years at -20°C. Reconstituted rr GM-CSF is stable for at least 3 months when stored in concentrated working aliquots (100 ng/µl or higher) at -20°C. Avoid repeated freeze/thaw cycles.

Biological Activity: The ED₅₀ as determined by the dose-dependant stimulation of the proliferation of murine FDC-P1 cell line is < 0.01 ng/ml, corresponding to a specific activity of 1 x 10⁸ IU/mg.

Purity: 98% (verified by SDS-PAGE / silver stain)

Endotoxicity: The endotoxin level is less than 0.1 ng per µg (1EU/µg) determined by LAL method

Order N°: rr GM-CSF+Size
available sizes: 2 µg, 10 µg, 50 µg

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