



Recombinant Rat GM-CSF

20150227BB



FOR RESEARCH ONLY! NOT FOR HUMAN USE!

Cat.-no.:	R20-041S
Size:	2 µg
Lot. No.:	According to product label

Sequence

MAPTRSPNPV TRPWKHVDI KEALSLNDM RALENEKNED
VDIISNEFSI QRPTCVQTRL KLYKQGLRGN LTKLNGALTM
IASHYQTNCP PTPETDCEIE VTFEDFIKN LKGFLFDIPF DCWKPVQK

Database References

Protein RefSeq:	NP_446304
Uniprot ID:	P48750
mRNA RefSeq:	NM_053852.1

Scientific Background

Gene-ID (NCBI):	116630
Synonyms:	Csf2; Gmcsf; 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.

Product Specifications

Expressed in	E. coli
Purity	> 98% by SDS-PAGE & HPLC analyses
Endotoxin level	< 0.1 ng /µg of protein (<1EU/µg).
Formulation	lyophilized
Length (aa):	128
MW:	14.5 kDa

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 $\geq 1.0 \times 10^8$ units/mg.



AVOID REPEATED FREEZE AND THAW CYCLES!