

Datasheet for ABIN2468495

GM-CSF Protein

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Overview

Quantity:	0.005 mg
Target:	GM-CSF (CSF2)
Origin:	Rat
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Sequence:	MAPTRSPNPV TRPWKHVDAI KEALSLNDM RALENEKNED VDIISNEFSI QRPTCVQTRL KLYKQGLRGN LTKLNGALTM IASHYQTNCP PTPETDCEIE VTTFEDFIKN LKGFLFDIPF DCWKPVQK
Characteristics:	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.
Purity:	< 98 % by SDS-PAGE gel and HPLC analyses.
Endotoxin Level:	Endotoxin level is less than 0.1 ng per µg (1 EU/µg).

Target Details

Target:	GM-CSF (CSF2)
Alternative Name:	GM-CSF (CSF2 Products)
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

Target Details

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.

Gene ID:	116630
NCBI Accession:	NP_446304
OMIM:	449083355
UniProt:	P48750
Pathways:	JAK-STAT Signaling, Cellular Response to Molecule of Bacterial Origin

Application Details

Restrictions:	For Research Use only
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Handling

Format:	Lyophilized
Handling Advice:	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.
Storage:	-20 °C
Storage Comment:	The 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.
Expiry Date:	24 months