

Datasheet for ABIN1096769

GM-CSF Protein (AA 18-144)



Overview

Quantity:	50 µg
Target:	GM-CSF (CSF2)
Protein Characteristics:	AA 18-144
Origin:	Human
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Biological Activity:	Active
Application:	Functional Studies (Func)

Product Details

Purpose:	Recombinant Human GM-CSF/CSF2 (E. coli)
Sequence:	MAPARSPSPS TQPWEHVNAI QEARRLLNLS RDTAAEMNET VEVISEMFDL QEPTCLQTRL ELYKQGLRGS LTKLKGPLTM MASHYKQHCP PTPETSCATQ IITFESFKEN LKDFLLVIPF DCWEPVQE
Characteristics:	Recombinant Human Granulocyte-Macrophage Colony Stimulating Factor/GM-CSF is produced with our E. coli expression system. The target protein is expressed with sequence (A18-E144) of Human GM-CSF.
Purity:	> 95 % as determined by reducing SDS-PAGE.
Sterility:	0.2 µm filtered
Endotoxin Level:	Less than 0.1 ng/μg (1 IEU/μg) as determined by LAL test

Target Details

Target:	GM-CSF (CSF2)
Alternative Name:	gm-csf (CSF2 Products)
Background:	Granulocyte-Macrophage Colony Stimulating Factor (GM-CSF) was initially characterized as a
	growth factor that can support the in vitro colony formation of granulocyte-macrophage
	progenitors. It is produced by a number of different cell types (including activated T cells, B
	cells, macrophages, mast cells, endothelial cells and fibroblasts) in response to cytokine of
	immune and inflammatory stimuli. Besides granulocyte-macrophage progenitors, GM-CSF is
	also a growth factor for erythroid, megakaryocyte and eosinophil progenitors. On mature
	hematopoietic, monocytes/ macrophages and eosinophils. GM-CSF has a functional role on
	non-hematopoitic cells. It can induce human endothelial cells to migrate and proliferate.
	Additionally, GM-CSF can also stimulate the proliferation of a number of tumor cell lines,
	including osteogenic sarcoma, carcinoma and adenocarcinoma cell lines.
	Alternative Names: Granulocyte-Macrophage Colony-Stimulating Factor, GM-CSF, Colony-
	Stimulating Factor, CSF, Molgramostin, Sargramostim, CSF2, GMCSF
Molecular Weight:	14.6 kDa
JniProt:	P04141
Pathways:	JAK-STAT Signaling, Cellular Response to Molecule of Bacterial Origin
Application Details	
Comment:	Biological activity: ED50 is less than 0.1 ng/ml as determined by the dose-dependent
	stimulation of human TF-1 cell proliferation. Specific Activity of 1.0 x 107 IU/ mg.
Restrictions:	For Research Use only
Handling	
- -ormat:	Lyophilized
Reconstitution:	It is not recommended to reconstitute to a concentration less than 100 $\mu g/mL$.
	It is not recommended to reconstitute to a concentration less than 100 $\mu g/mL$. Dissolve the lyophilized protein in ddH20.
	· · · · · · · · · · · · · · · · · · ·
	Dissolve the lyophilized protein in ddH2O.
Reconstitution:	Dissolve the lyophilized protein in ddH2O. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Handling

Storage Comment:	Lyophilized protein should be stored at < -20°C, though stable at room temperature for 3 weeks.
	Reconstituted protein solution can be stored at 4-7°C for 2-7 days.
	Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Expiry Date:	3 months