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GM-CSF Protein (AA 18-141) (His tag)



Overview

Quantity:	100 μg
Target:	GM-CSF (CSF2)
Protein Characteristics:	AA 18-141
Origin:	Mouse
Source:	Escherichia coli (E. coli)
Protein Type:	Recombinant
Purification tag / Conjugate:	This GM-CSF protein is labelled with His tag.

Product Details

Sequence:	Ala 18-Lys 141
Characteristics:	A DNA sequence encoding the Mouse GM-CSF protein (P01587) (Ala 18-Lys 141) was expressed with a N-His tag.
Purity:	> 95 % as determined by reducing SDS-PAGE.

Target Details

Target:	GM-CSF (CSF2)
Alternative Name:	GM-CSF (CSF2 Products)
Background:	Abbreviation: GM-CSF
	Target Synonym: Granulocyte-macrophage colony-stimulating factor,Csf2,GM-CSF,Colony-
	stimulating factor,Csfgm
	Background: Granulocyte-Macrophage Colony Stimulating Factor (GM-CSF) was initially

characterized as a growth factorthat can support the in vitro colony formation of granulocyte-macrophage progenitors. It is produced by anumber of different cell types (including activated T cells, B cells, macrophages, mast cells, endothelial cellsand fibroblasts) in response to cytokine of immune and inflammatory stimuli. Besides granulocyte-macrophageprogenitors, GM-CSF is also a growth factor for erythroid, megakaryocyte and eosinophil progenitors. Onmature hematopoietic, monocytes/ macrophages and eosinophils. GM-CSF has a functional role on nonhematopoitic cells. It can induce human endothelial cells to migrate and proliferate. Additionally, GM-CSF canalso stimulate the proliferation of a number of tumor cell lines, including osteogenic sarcoma, carcinoma andadenocarcinoma cell lines.

Molecular Weight:

Calculated MW: 13.53 kDa

Observed MW: 15 kDa

UniProt:

P01587

Pathways:

JAK-STAT Signaling, Cellular Response to Molecule of Bacterial Origin

Application Details

Restrictions:

For Research Use only

Handling

Format:	Lyophilized
Buffer:	Lyophilized from sterile PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01 % Tween80 are added as protectants before lyophilization.
Storage:	4 °C,-20 °C,-80 °C
Storage Comment:	Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.
Expiry Date:	12 months