

Datasheet for ABIN7505393

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



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### 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 ( <a href="#">CSF2 Products</a> )   |
| Background:       | <p>Abbreviation: GM-CSF</p> <p>Target Synonym: Granulocyte-macrophage colony-stimulating factor,Csf2,GM-CSF,Colony-stimulating factor,Csfgm</p> <p>Background: Granulocyte-Macrophage Colony Stimulating Factor (GM-CSF) was initially</p> |

## Target Details

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 nonhematopoietic 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.

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