



[Go to Product page](#)

Datasheet for ABIN2017886
GM-CSF Protein (AA 18-141)

2 Images

Overview

Quantity:	50 µg
Target:	GM-CSF (CSF2)
Protein Characteristics:	AA 18-141
Origin:	Mouse
Source:	CHO Cells
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Characteristics:	ED50 < 0.05 ng/mL, measured in a cell proliferation assay using mouse FDC-P1 cells, corresponding to a specific activity of >2 x 10 ⁷ units/mg.
Purity:	> 95 % as analyzed by SDS-PAGE and HPLC.
Endotoxin Level:	< 0.2 EU/µg, determined by LAL method.

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 or

Target Details

immune and inflammatory stimuli. Besides granulocyte-macrophage progenitors, GM-CSF is also a growth factor for erythroid, megakaryocyte and eosinophil progenitors. On mature hematopoietic cells, GM-CSF is a survival factor for and activates the effectors functions of granulocytes, monocytes/macrophages and eosinophils.

Synonyms: Granulocyte/Macrophage-Colony Stimulating Factor, GMCSF

Molecular Weight: 15-19 kDa, observed by non-reducing SDS-PAGE.

UniProt: [Q14AD9](#)

Pathways: [JAK-STAT Signaling](#), [Cellular Response to Molecule of Bacterial Origin](#)

Application Details

Restrictions: For Research Use only

Handling

Format: Lyophilized

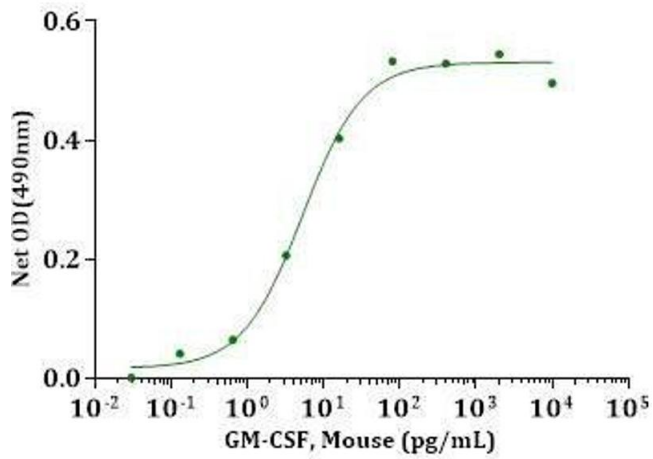
Reconstitution: Reconstituted in ddH₂O or PBS at 100 µg/mL.

Buffer: Lyophilized after extensive dialysis against PBS.

Storage: -80 °C

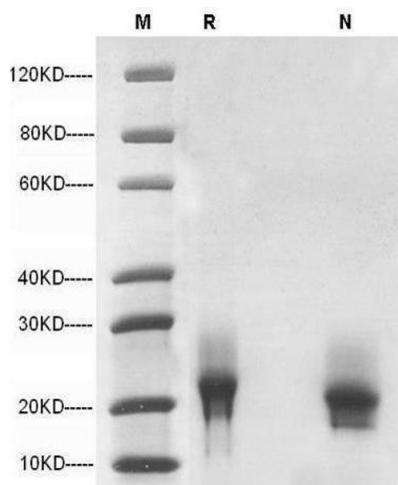
Storage Comment: Lyophilized recombinant murine Granulocyte Macrophage Colony Stimulating Factor (GM-CSF) remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, rmGM-CSF should be stable up to 1 week at 4 °C or up to 2 months at -20 °C.

Expiry Date: 6 months



Activity Assay

Image 1. GM-CSF, Mouse inducing cell proliferation in mouse FDC-P1 cells. The ED50 for this effect is less than 50pg/mL.



SDS-PAGE

Image 2. 5 µg of GM-CSF, Mouse was resolved with SDS-PAGE under reducing (R) and non-reducing (N) conditions and visualized by Coomassie Blue staining.