

## Overview

<b>Synonyms</b>	Granulocyte/Macrophage-Colony Stimulating Factor, GMCSF
<b>Description</b>	<b>Granulocyte Macrophage Colony Stimulating Factor (GM-CSF)</b> 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 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.
<b>Species Source</b>	Mouse <i>CHO</i>
<b>Biological Activity</b>	ED <sub>50</sub> < 0.05 ng/ml, measured in a cell proliferation assay using mouse FDC-P1 cells, corresponding to a specific activity of >2 x 10 <sup>7</sup> units/mg.
<b>Sequence</b>	APTRSPITVT RPWKHVEAIK EALNLLDDMP VTLNEEVEVV SNEFSFKKLT CVQTRLKIFE QGLRGNFTKL KGALNMTASY YQTYCPPTPE TDCETQVTY ADFIDSLKTF LTDIPFECKK PVQK

## Properties

<b>Measured Molecular Weight</b>	15~19 kDa, observed by non-reducing SDS-PAGE.
<b>Purity</b>	> 95% as analyzed by SDS-PAGE and HPLC.
<b>Formulation</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	Reconstituted in ddH <sub>2</sub> O or PBS at 100 µg/ml.
<b>Endotoxin Level</b>	<0.2 EU/µg, determined by LAL method.
<b>Storage</b>	Lyophilized recombinant <b>murine Granulocyte Macrophage Colony Stimulating Factor (GM-CSF)</b> remains stable up to 6 months at lower than -70°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.
<b>Note</b>	For research use only

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