

## Overview

<b>Synonyms</b>	GM-CSF, Granulocyte/Macrophage Colony-Stimulating Factor, CSF-2, MGI-1GM, pluripoietin-alpha
<b>Description</b>	<p><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 and other 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 that activates effector functions of granulocytes, monocytes/macrophages and eosinophils.</p> <p>Recombinant <b>Mouse GM-CSF</b> produced in <i>E. coli</i> is a single non-glycosylated polypeptide chain containing 125 amino acids. A fully biologically active molecule, rmGM-CSF has a molecular mass of 14.3 kD analyzed by reducing SDS-PAGE and is obtained by chromatographic techniques.</p>
<b>Source</b>	<i>E. coli</i>
<b>Biological Activity</b>	ED <sub>50</sub> < 5 pg/ml, measured in a cell proliferation assay using mouse FDC-P1 cells, corresponding to a specific activity of >2 x 10 <sup>8</sup> units/mg.
<b>Sequence</b>	Ala <sup>18</sup> -Lys <sup>141</sup> (Accession #: Q14AD9), with an N-terminal Met.

## Properties

<b>Measured Molecular Weight</b>	14.3 kDa, observed by reducing SDS-PAGE.
<b>Purity</b>	> 98% as analyzed by SDS-PAGE&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>Mouse GM-CSF</b> remains stable up to 6 months at lower than -70°C from date of receipt. Upon reconstitution, Mouse GM-CSF should be stable up to 1 week at 4°C or up to 3 months at -20°C.
<b>Note</b>	For research use only

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