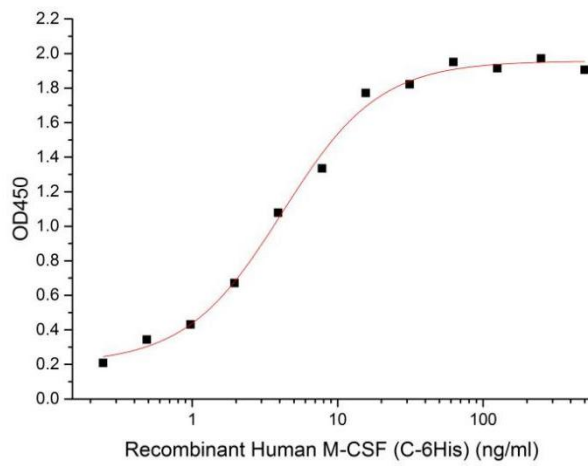


## Recombinant Human M-CSF

Catalog#:P00085    Derived from Human Cells

<b>DESCRIPTION</b>	<p>Recombinant Human Macrophage Colony-Stimulating Factor is produced by our Mammalian expression system and the target gene encoding Glu33-Arg255 is expressed with a 6His tag at the C-terminus.</p> <p><b>Accession#:</b> P09603</p> <p><b>Known as:</b> Macrophage Colony-Stimulating Factor 1; CSF-1; M-CSF; MCSF; Lanimostim; CSF1</p>
<b>FORMULATION</b>	Lyophilized from a 0.2 µm filtered solution of 20mM PB, 150mM NaCl, pH 7.2.
<b>SHIPPING</b>	<p>The product is shipped at ambient temperature.</p> <p>Upon receipt, store it immediately at the temperature listed below.</p>
<b>STORAGE</b>	<p>Lyophilized protein should be stored at <math>\leq -20^{\circ}\text{C}</math>, stable for one year after receipt.</p> <p>Reconstituted protein solution can be stored at <math>2-8^{\circ}\text{C}</math> for 2-7 days.</p> <p>Aliquots of reconstituted samples are stable at <math>\leq -20^{\circ}\text{C}</math> for 3 months.</p>
<b>RECONSTITUTION</b>	<p><i>Always centrifuge tubes before opening. Do not mix by vortex or pipetting.</i></p> <p><i>It is not recommended to reconstitute to a concentration less than 100µg/ml.</i></p> <p>Dissolve the lyophilized protein in distilled water.</p> <p>Please aliquot the reconstituted solution to minimize freeze-thaw cycles.</p>
<b>QUALITY CONTROL</b>	<p><b>Mol Mass:</b> 26.17 KDa      <b>AP Mol Mass:</b> 41 KDa, reducing conditions.</p> <p><b>Purity:</b> Greater than 95% as determined by reducing SDS-PAGE.</p> <p><b>Endotoxin:</b> &lt; 0.01 EU/µg as determined by LAL test.</p>
<b>BACKGROUND</b>	<p>Macrophage Colony-Stimulating Factors (m-csf) are cytokines that act in hematopoiesis by controlling the production, differentiation, and function of 2 related white cell populations of the blood, the granulocytes and the monocytes-macrophages. CSF-1 promotes the release of proinflammatory chemokines, and thereby plays an important role in innate immunity and in inflammatory processes. It also plays an important role in the regulation of osteoclast proliferation and differentiation, the regulation of bone resorption, and is required for normal bone development. CSF-1 is required for normal male and female fertility and promotes reorganization of the actin cytoskeleton, regulates formation of membrane ruffles, cell adhesion and cell migration. It also plays a role in lipoprotein clearance.</p>
<div style="display: flex; align-items: center;"> <div style="margin-right: 20px;"><b>SDS-PAGE</b></div>  </div>	

### Bioactivity-Cell Based Assay:



Measured in a cell proliferation assay using M-NFS-60 mouse myelogenous leukemia lymphoblast cells. The ED<sub>50</sub> for this effect is 4.16 ng/ml.