

## Recombinant Mouse M-CSF

Catalog No.: RP0003

### Basic Information

#### Information

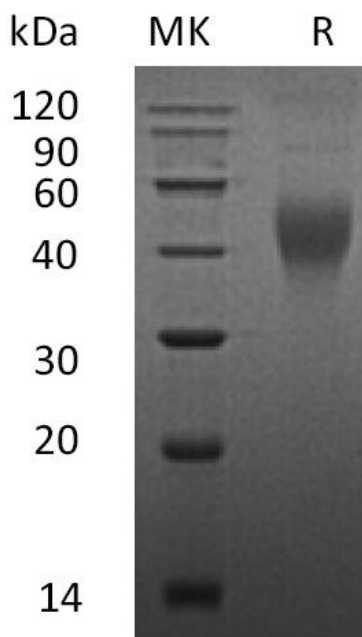
Source	<i>Human Cells</i>
Description	Recombinant Mouse Macrophage Colony-Stimulating Factor 1 is produced by our Mammalian expression system and the target gene encoding Lys33-Glu262 is expressed.
Accession	P07141
Known As	Macrophage colony-stimulating factor 1; CSF-1; MCSF; Csf1; Csfm
Predicted Mol Mass	26 KDa
Apparent Mol Mass	37-80 KDa, reducing conditions

#### Properties

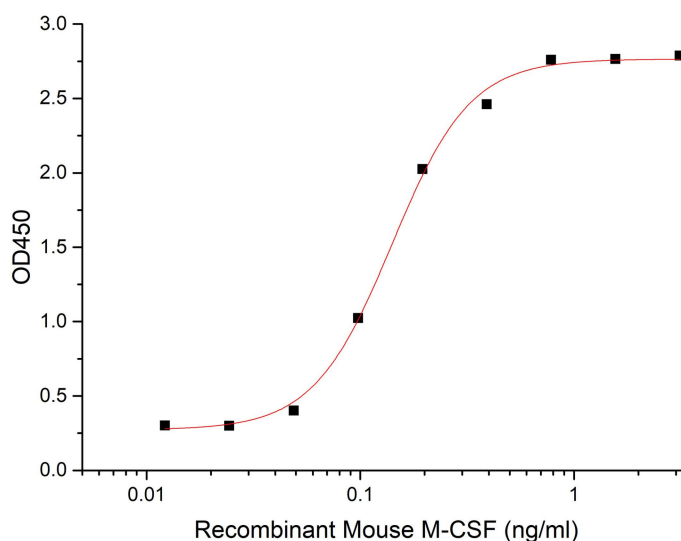
Formulation	Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.
Storage	Lyophilized protein should be stored at $\leq -20^{\circ}\text{C}$ , stable for one year after receipt. Reconstituted protein solution can be stored at $2-8^{\circ}\text{C}$ for 2-7 days. Aliquots of reconstituted samples are stable at $\leq -20^{\circ}\text{C}$ for 3 months.
Endotoxin	$< 0.01$ EU/µg as determined by LAL test.
Reconstitution	Always centrifuge tubes before opening. Do not mix by vortex or pipetting. It is not recommended to reconstitute to a concentration less than 100 µg/ml. Dissolve the lyophilized protein in distilled water. Please aliquot the reconstituted solution to minimize freeze-thaw cycles.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature listed below.

## Experimental Data

### Purity-SDS-PAGE



### Bioactivity-Cell Based Assay



Greater than 95% as determined by reducing SDS-PAGE. (QC verified)

Measured in a cell proliferation assay using M-NFS-60 mouse myelogenous leukemia lymphoblast cells. The ED50 for this effect is 0.04-0.2 ng/ml. (QC verified)

## Background

Macrophage colony-stimulating factor 1 (M-CSF) is a single-pass type I membrane protein. It is a hematopoietic growth factor that is involved in the proliferation, differentiation, and survival of monocytes, macrophages, and bone marrow progenitor cells. M-CSF affects macrophages and monocytes in several ways, including stimulating increased phagocytic and chemotactic activity, and increased tumour cell cytotoxicity. The role of M-CSF is not only restricted to the monocyte/macrophage cell lineage. By interacting with its membrane receptor, M-CSF also modulates the proliferation of earlier hematopoietic progenitors and influence numerous physiological processes involved in immunology, metabolism, fertility and pregnancy.