

## Product datasheet for **TP728366**

### Recombinant M-CSF (Macrophage colony-stimulating factor) $\square$ Mouse

#### Product data:

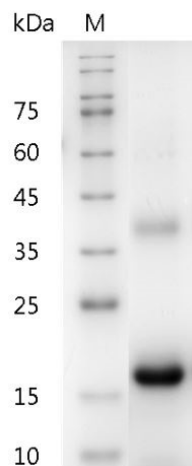
<b>Product Type:</b>	Recombinant Proteins
<b>Description:</b>	Recombinant M-CSF (Macrophage colony-stimulating factor) $\square$ Mouse
<b>Species:</b>	Mouse
<b>Expression Host:</b>	E. coli
<b>Expression cDNA Clone or AA Sequence:</b>	MKEVSEHCSTMIGNHGLKVLQQLIDSQMETSCQIAFEFVDQEQLLDDPVCYLKKAFFLVQDIIDETMRFKD NTPNANATERLQELSNNLNSCFTKDYEEQNKACVTRTFHETPLQLLEKIKNFFNETKNLLEKDNIFTKNC NNSFAKCSSRDVWTKP with polyhistidine tag at the C-terminus
<b>Tag:</b>	His Tag (C-term)
<b>Predicted MW:</b>	The protein has a calculated MW of 19.02 kDa. The protein migrates as 17-25 kDa under reducing condition (SDS-PAGE analysis).
<b>Purity:</b>	>98% as determined by SDS-PAGE.
<b>Buffer:</b>	The protein was lyophilized from a 0.2 $\mu$ m filtered solution containing 1X PBS, pH 8.0.
<b>Bioactivity:</b>	Measure by its ability to induce proliferation in NFS-60 cells. The ED <sub>50</sub> for this effect is <2 ng/mL. The specific activity of recombinant mouse M-CSF is approximately >5 x 10 <sup>5</sup> IU/mg.
<b>Endotoxin:</b>	<0.1 EU per 1 $\mu$ g of the protein by the LAL method.
<b>Reconstitution Method:</b>	Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H <sub>2</sub> O to a concentration not less than 100 $\mu$ g/mL and incubate the stock solution at room temperature for at least 20 mins to ensure sufficient re-dissolved. Do Not Vortex! Vigorous shaking may impair the biological activity of the protein.
<b>Applications:</b>	Cell culture
<b>Storage:</b>	Lyophilized protein should be stored at -20°C for 1 year. Upon reconstitution, store at 2°C to 8°C for up to 1 week. Further dilute in a buffer containing a carrier protein or stabilizer (e.g. 0.1% BSA, 10%FBS, 5%HSA or 5% trehalose solution), protein aliquots should be stored at -20°C or -80°C for 3-6 months. Avoid repeated freeze/thaw cycles.
<b>UniProt ID:</b>	<u><a href="#">P07141</a></u>
<b>Synonyms:</b>	CSF-1, MGI-IM



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**Summary:**

Macrophage Colony-Stimulating Factor (M-CSF) is a 19.02 kDa hematopoietic Growth Factors with 162 amino acid residues. The active form of the protein is homodimer, and secreted by osteoblasts. M-CSF controls the production, differentiation, and function of monocytes, macrophages, and bone marrow progenitor cells. M-CSF is able to activate CSF-1 signaling pathway via binding its receptor CSF-1R.

**Product images:**

SDS- PAGE analysis of recombinant mouse M-CSF