

Mouse recombinant M-CSF (Macrophage colony-stimulating factor) protein, AF

Catalog Number: PROTP07141-3

Overview

Product Name	Mouse recombinant M-CSF (Macrophage colony-stimulating factor) protein, AF
Description	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.
Size	5ug,20ug,100ug
Tag	His Tag (C-term)
Form	Lyophilized
Source	Escherichia coli
Formulation	The protein was lyophilized from a 0.2 um filtered solution containing 1X PBS, pH 8.0. If you have any concerns or special requirements, please confirm with us.

Storage

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.

Purity

>98% as determined by SDS-PAGE.

Molecular weight

The protein has a calculated MW of 19.02 kDa. The protein migrates as 17-25 kDa under reducing condition (SDS-PAGE analysis).

Activity

Measure by its ability to induce proliferation in NFS-60 cells. The ED₅₀ for this effect is 5 x 10² IU/mg.

Endotoxin

<0.1 EU per 1 ug of the protein by the LAL method.

Amino Acid Sequence

MKEVSEHC SHMIGNH LKVLQQLIDSQMETSCQIAFEFVDQEQLDDPVCYLKKAFFLVQDIIDETMRFKDNTPNANATERLQELSNNLNSCFTKDYEE
QNKACVRTFHETPLQLLEKIKNFFNETKNLLEKDOWNIFTKNCNNSFAKCSSRDVVTKP with polyhistidine tag at the C-terminus

Reconstitution

Centrifuge at 3000 rpm for 5 mins before opening. It is recommended to reconstitute the lyophilized protein in sterile H₂O to a concentration not less than 100 µg/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.

Usage

Boster's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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