

Recombinant Mouse M-CSF / Macrophage Colony-Stimulating

Factor, Animal Free & Carrier Free

Cat #: C-CYP243

Size: 5µg, 20µg, 100µg, 500µg, 1mg

Shipping: Blue Ice

Product Overview

Macrophage Colony-Stimulating Factor (M-CSF), is a secreted cytokine which causes hematopoietic stem cells to

differentiate into macrophages or other related cell types. The active form of M-CSF/CSF- 1 is found extracellularly as a

disulfide-linked homodimer, and is thought to be produced by proteolytic cleavage of membrane- bound precursors.

M-CSF/CSF-1 induces cells of the monocyte/ macrophage lineage. It also plays a role in immunological defenses, bone

metabolism, lipoproteins clearance, fertility and pregnancy. Upregulation of M-CSF/CSF-1 in the infarcted myocardium

may have an active role in healing not only through its effects on cells of monocyte/macrophage lineage, but also by

regulating endothelial cell chemokine expression

Product Information

Source: Escherichia Coli.

Purity: >98% as determined by SDS-PAGE. Ni-NTA chromatography.

Biological Activity: Measure by its ability to induce proliferation in NFS-60 cells. The ED₅₀ for this effect is < 2 ng/mL.

The specific activity of recombinant mouse M-CSF is approximately >5 x 10⁵ IU/mg.

Endotoxin: <0.1EU per 1µg of the protein by the LAL method.

Amino acid sequence:

MKEVSEHCSHMIGNGHLKVLQQLIDSQMETSCQIAFEFVDQEQLDDPVCYLKKAFFLVQDIIDETMRFKDNTPNANATERLQELSNNLNS

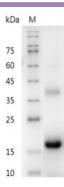
CFTKDYEEQNKACVRTFHETPLQLLEKIKNFFNETKNLLEKDWNIFTKNCNNSFAKCSSRDVVTKP with polyhistidine tag at the

C-terminus.

Formulation: Lyophilized from a sterile filtered aqueous solution in 1X PBS, pH 8.0

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SDS-PAGE analysis of recombinant mouse M-CSF

Usage Method

- 1. Before opening, it is recommended to centrifuge at 3000-3500 rpm for 5 minutes.
- 2. Reconstitute to a concentration of 0.1-1.0 mg/mL in sterile distilled H_2O . Allow the solution to sit at room temperature for at least 20 minutes to ensure complete dissolution. Avoid vigorous vortexing.
- 3. The reconstituted solution can be stored at 2-8°C for up to 1 week.
- 4. For long-term storage, it is recommended to further dilute the solution with a carrier protein (such as 0.1% BSA, 10% FBS, or 5% HSA) to a concentration of no less than 10 μ g/mL and aliquot for storage at -20°C to -80°C for 3 to 6 months. If serum-free experiments are required, a 5% trehalose solution can be used as a carrier instead. Avoid repeated freeze-thaw cycles.

Storage

Physical Appearance	Storage	Stability
Lyophilized powder	-20°C to -80°C	1 year
Reconstitution (initial)	2°C to 8°C	Less than 1 week
Reconstitution (after dilution)	-20°C to -80°C	3 to 6 months

Note

The reagent is only used in the field of scientific research, not suitable for clinical diagnosis or other purposes.

