

Human M-CSF, His Tag, E. coli

Catalog Number	LDG093PHE
Package	5 µg / 20 µg / 100 µg / Customized package

For full product information, images and publications, please visit [our website](#).



Specifications

Species of Origin

Human

Affinity Tag

His Tag (C-term)

Purity

>98% as determined by SDS-PAGE analysis.

Activity

Measure by its ability to induce proliferation in NFS-60 cells. The ED₅₀ for this effect is <1 ng/mL. The specific activity of recombinant human M-CSF is approximately >2.5x 10⁸ IU/mg.

Form

Lyophilized

Expression System

Escherichia coli

Storage Buffer

Lyophilized from a 0.2 µm filtered solution of PBS, pH 7.4.

Molecular weight

The protein has a calculated MW of 13.34 kDa. The protein migrates as 13-26 kDa under reducing condition (SDS-PAGE analysis).

Endotoxin Level

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

Background

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Background

Macrophage Colony Stimulating Factor (M-CSF) is a 18.54 kDa member of hematopoietic Growth Factors with 159 amino acid residues. M-CSF produced by osteoblasts and osteoblast precursors. M-CSF stimulates the growth and differentiation of the monocyte lineage, and promotes the survival, proliferation, and functions of mature monocytes/macrophages.

Uniprot ID

#P09603

Synonyms

Processed macrophage colony-stimulating factor 1, Lanimostim, Macrophage colony-stimulating factor 1

Sequence Note

Glu33-Ser190

Instruction

Reconstitution

It is recommended to reconstitute the lyophilized protein in sterile H₂O to a concentration of 200 µg/mL and incubate the stock solution for at least 20 min to ensure sufficient re-dissolved.

Stability & Storage

This product is stable after storage at:

- -20°C for 12 months in lyophilized state from date of receipt.
- -20°C or -80°C for 1 month under sterile conditions after reconstitution.

Avoid repeated freeze/thaw cycles.

Shipping

The product is shipped with polar packs. Upon receipt, store it immediately at -20°C or lower for long term storage.

Image

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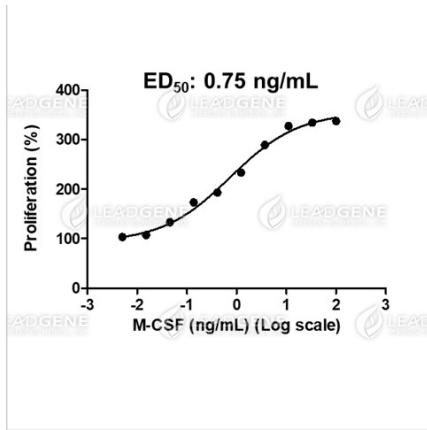
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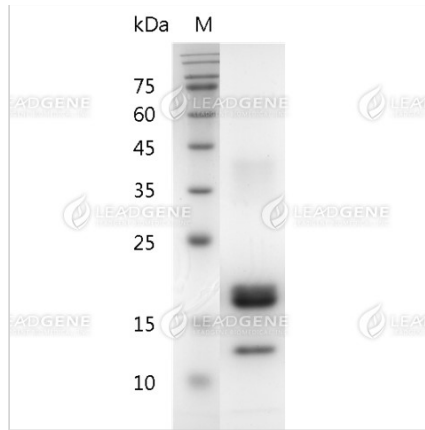
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Human M-CSF, His Tag, E. coli (LDG093PHE) induced NFS-60 cell proliferation, with the ED₅₀ at 0.75 ng/mL.



SDS-PAGE analysis of recombinant human M-CSF.

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