

## M-CSF Protein, Human (Biotinylated, HEK293, His)

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| Cat. No.:         | HY-P73287  |
| Synonyms:         | Macrophage Colony-Stimulating Factor 1; CSF-1; M-CSF; Lanimostim |
| Species:          | Human  |
| Source:           | HEK293   |
| Accession:        | P09603 (E33-N190)  |
| Gene ID:          | 1435   |
| Molecular Weight: | 27-32 kDa  |

### PROPERTIES

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| Appearance          | Lyophilized powder.  |
| Formulation         | Lyophilized from a 0.2 $\mu$ m filtered solution of PBS, pH 7.4. Normally 5 % - 8 % trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.                                 |
| Endotoxin Level     | <1 EU/ $\mu$ g, determined by LAL method.  |
| Reconstitution      | It is not recommended to reconstitute to a concentration less than 100 $\mu$ g/mL in ddH <sub>2</sub> O.   |
| Storage & Stability | Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage. |
| Shipping            | Room temperature in continental US; may vary elsewhere.  |

### DESCRIPTION

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| Background | M-CSF Protein is a vital cytokine involved in regulating the survival, proliferation, and differentiation of hematopoietic precursor cells, particularly mononuclear phagocytes like macrophages and monocytes. It plays a crucial role in innate immunity and inflammatory processes by promoting the release of pro-inflammatory chemokines. Additionally, M-CSF Protein is essential for osteoclast proliferation and differentiation, regulating bone resorption, and normal bone development. It is also necessary for normal male and female fertility. Moreover, M-CSF Protein contributes to the reorganization of the actin cytoskeleton, facilitating membrane ruffle formation, cell adhesion, and cell migration. Furthermore, it plays a role in lipoprotein clearance. M-CSF Protein can exist in different forms, such as homodimer or heterodimer configurations, and it interacts with CSF1R. |
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**Caution: Product has not been fully validated for medical applications. For research use only.**

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