

M-CSF Protein, Human (Biotinylated, HEK293)

Cat. No.:	HY-P77516
Synonyms:	Macrophage Colony-Stimulating Factor 1; CSF-1; M-CSF; Lanimostim
Species:	Human
Source:	HEK293
Accession:	P09603-1/NP_757349.1 (E33-R255)
Gene ID:	1435
Molecular Weight:	Approximately 18.4 kDa.

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ 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/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ 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

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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