

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant Human Macrophage Colony Stimulating Factor (rHuM-CSF)

Catalog Number: PR1083

Source: Baculovirus infected Silkworm Quantity: 2µg/10µg/100µg

Description

M-CSF, also known as CSF-1, is a four α helical bundle cytokine that is the primary regulator of macrophage survival, proliferation and differentiation. M-CSF is also essential for the survival and proliferation of osteoclast progenitors. M-CSF also primes and enhances macrophage killing of tumor cells and microorganisms, regulates the release of cytokines and other inflammatory modulators from macrophages, and stimulates pinocytosis.

Molecular Weight:

Approximately 42.0 kDa, a covalently linked homodimer, of two 21.0 kDa polypeptide monomers (1-149 amino acid of human M-CSF).

Purity:

>95% by SDS-PAGE and HPLC analyses.

Biological Activity:

Fully biologically active when compared to standard. The ED50 as determined by the dose-dependant stimulation of the proliferation of murine M-NSF-60 cells is less than 3.0 ng/ml, corresponding to a Specific Activity of $\square 3.3 \times 10^5$ IU/mg.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized from a 0.2mm filtered solution in 20mM PB, containing 1% HSA and 3% Mannitol.

AA Sequence:

EEVSEYCSHMIGSGHLQSLQRLIDSQM
ETSCQITFEFVDQEQLKDPVCYLKKA F

LLVQDIMEDTMRFRDNTPN AIAIVQLQ
ELSLRLKSCFTKDYEEHDKACVRTFYE
TPLQLLEKVKNVFNETKNLLDKDWNIF
SKNCNNSFAECSSQ

Endotoxin:

Less than 1EU/mg of rHuM-CSF as determined by LAL method.

Reconstitution:

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water to a concentration of 0.1 mg/mL. Stock solutions should be apportioned into working aliquots and stored at $< -20^{\circ}\text{C}$. Further dilutions should be made in appropriate buffered solutions.

Storage:

This lyophilized preparation is stable at $2-8^{\circ}\text{C}$, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at $2-8^{\circ}\text{C}$. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C . Avoid repeated freeze/thaw cycles.

Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. NOT FOR HUMAN USE. Made in China

MADE IN CHINA

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