



**Recombinant Human Macrophage Colony Stimulating Factor
(rhM-CSF)
Catalog Number: 102-09**

Description	M-CSF 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.
Synonyms	CSF-1, Lanimostim
AA Sequence	EEVSEYCSHM IGSGLHLSLQ RLIDSQMETS CQITFEFVDQ EQLKDPVCYL KKAFLLVQDI MEDTMRFRDN TPNAIAIVQL QELSLRLKSC FTKDYEEHDKACVVRTFYETP LQLEKVKNV FNETKNLLDK DWNIFSKNCN NSFAECSSQ
Source	<i>Baculovirus</i> infected Silkworm
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. The ED ₅₀ is < 3ng/ml, as determined by murine M-NSF-60 proliferation.
Physical Appearance	White lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution in 20mM PB, containing 1% HSA and 3% Mannitol.
Endotoxin	< 1EU/ μ g of growth factor as determined by LAL method.
Reconstitution	Reconstitute in sterile distilled water containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL.
Storage	Store at -20°C after receiving. Upon reconstitution, store at 2-8°C for up to one week. For maximal stability, aliquot and store at -20°C. Avoid repeated freeze/ thaw cycles.
Usage	This product is for research use only. It is not approved for use in humans, animals, or <i>in vitro</i> diagnostic procedures.