

M CSF Human, Baculovirus

Description: Macrophage Colony Stimulating Factor Human Recombinant produced in E.coli is a disulfide linked homodimer, glycosylated, polypeptide chain containing 2 x 149 amino acids and having a total molecular mass of 42 kDa. MCSF is purified by proprietary chromatographic techniques.

Catalog #: CYP5-644

For research use only.

Synonyms: CSF-1, Lanimostim, MCSF, MGC31930, M-CSF, Macrophage colony-stimulating factor 1, CSF1.

Source: Baculovirus infected Silkworm.

Physical Appearance: Sterile Filtered White lyophilized (freeze-dried) powder.

Amino Acid Sequence: EEVSEYCSHM IGSGHLQSLQ RLIDSQMETS CQITFEFVDQ
EQLKDPVCYL KKAFLLVQDI MEDTMRFRDN TPNAIAIVQL QELSLRLKSC FTKDYEEHDK
ACVRTFYETP LQLEKVKNV FNETKNLLDK DWNIFSKNCN NSFAECSSQ.

Purity: Greater than 95.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Formulation:

The lyophilized protein (1mg/ml) was lyophilized with 20mM phosphate buffer, 1% HSA and 3% mannitol.

Stability:

Lyophilized Macrophage Colony Stimulating Factor although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution MCSF should be stored at 4°C between 2-7 days and for future use below -18°C. Please prevent freeze-thaw cycles.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

Solubility:

It is recommended to reconstitute the lyophilized M-CSF in sterile 18M-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

Introduction:

Granulocyte/Macrophage Colony-Stimulating Factors are cytokines that act in hematopoiesis by controlling the production, differentiation, and function of 2 related white cell populations of the blood, the granulocytes and the monocytes-macrophages. CSF-1 induces cells of the monocyte/macrophage lineage. It plays a role in immunological defenses, bone metabolism, lipoproteins clearance, fertility and pregnancy.

Biological Activity:

The ED₅₀, calculated by the dose-dependant stimulation of the proliferation of murine M-NFS-60 indicator cells was found
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