

Rec. Human Macrophage Stimulating Factor

rHuM-CSF

Product	Cat#	Package size
Recombinant Human Macrophage Stimulating Factor	C6306.0002	2µg
Recombinant Human Macrophage Stimulating Factor	C6306.0010	10µg
Recombinant Human Macrophage Stimulating Factor	C6306.1000	1mg

Product description

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. MCSF induces cells of the monocyte/macrophage lineage. MCSF plays a role in immunological defenses, bone metabolism, lipoproteins clearance, fertility and pregnancy.

Recombinant human Macrophage Colony Stimulating Factor (rHuM-CSF) is produced in *E.Coli* as a non-glycosylated disulfide linked homodimer, polypeptide of 2 x 159 amino acids and a total molecular mass of 36.8kDa.

Synonyms:

Macrophage Colony Stimulating Factor, CSF-1, Lanimostim, MCSF, MGC31930, M-CSF.

Source: *E. coli*

Biological activity

The ED50, calculated by the dose-dependent stimulation of the proliferation of murine M-NFS-60 indicator cells was found to be <1.4 to 2.1ng/mL.

Purity: >97% determined by SDS-PAGE

Amino acid sequence:

MEEVSEYCSH MIGSGHLQSL QRLIDSQMET SCQITFEFVD QEQLKDPVCY LKKAFLLVQD IMEDTMRFRD NTPNAIAIVQ LQELSLRLKS CFTKDYEEHD KACVRTFYET PLQLEKVKV NFNETHKLLD KDNWIFSKNC NNSFAECSSQ GHERQSEGS.

Formulation

MCSF protein was lyophilized with 10mM sodium Phosphate, pH8.0 and 50mM NaCl.

Stability

Lyophilized Macrophage Colony Stimulating Factor although stable at room temperature for 3 weeks, should be stored desiccated below -20°C.

Upon reconstitution rHuM-CSF should be stored at +2°C to +8°C between 2-7 days and for future use below -20°C.

Please prevent from repeated freeze-thawing cycles.

Reconstitution

We recommend to reconstitute the lyophilised rHuM-CSF in sterile demineralised water at a concentration of not less than 100µg/mL which can be further diluted to other aqueous solutions.

Usage

This product is for research/laboratory usage only. It may not be used as drug, agricultural or pesticidal product, food additive or household chemical.