Recombinant Human Macrophage Colony Stimulating Factor (rh M-CSF)

Synonyms: CSF-1, Lamostim

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

Description: Recombinant human M-CSF produced in E.coli is a disulfide linked homodimer, non-glycosylated, polypeptide chain containing 2 x 159 amino acids and having a total molecular mass of 36.8 kDa. rh M-CSF is purified by proprietary chromatographic techniques.

Source: Escherichia Coli.

Physical Appearance: Sterile filtered white lyophilized (freeze-dried) powder.

Formulation: lyophilized from a 0.22 filtered carrier free solution in 50 mM Tris and 250 mM NaCl, pH 10.0. The aliquots of 1µg and 2µg contain Trehalose 5% (w/vol) for better recovery.

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

Stability: Lyophilized rh M-CSF although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution rh M-CSF should be stored at 4° C between 2-7 days and for future use below -18° C. Please prevent freeze-thaw cycles.

Purity: 95.0% as determined by SDS-PAGE / silver stain.

Endotoxicity: The endotoxin level is less than 1 EU/µg determined by LAL method

Amino Acid Sequence: MEEVSEYCSH MIGSGHLQSL QRLIDSQMET SCQITFEFVD QEQLKDPVCY LKKAFLLVQD IMEDTMRFRD NTPNAIAIVQ LQELSRLKS CFKDYEEHD KACVRFTFYET LQLLEKVKN VFNETKNLLD KDWNIFSKNC NNSFAECSSQ GHERQSEQS.

Biological Activity: The ED50 tested by receptor driven reporter gene expression in Ba/F3 c-fms transfectants was found to be 5 x 10^5 IU/mg.

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