

Recombinant Macrophage Colony Stimulating Factor (rr M-CSF)

Synonyms: CSF-1, Lanimostim

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 rat Macrophage Colony Stimulating Factor produced in HEK-293 cells is a secreted protein (amino acids Glu33-Arg254). M-CSF is disulfide-linked homodimer containing 2 x 222 a.a chains.

Source: HEK293 cells

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

Formulation: Lyophilized after extensive dialysis against PBS
The aliquotes of 1 µg and 2 µg contain Trehalose 5% (w/vol) for better recovery

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

Stability: Lyophilized rr M-CSF although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution rr M-CSF should be stored at 4° C between 2-7 days and for future use below -18° C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Purity: Greater than 95.0% as determined by SDS-PAGE.

Biological Activity: Measured by its ability to stimulate the proliferation of mouse M-NFS-60 cells the ED₅₀ of 3 – 4 ng/ml.

This material is offered for **research use only**. Not for use in human. For in vitro use only. ImmunoTools will not be held responsible for patent infringement or other violations that may occur with the use of our products.

<i>small</i>	2 µg	Cat.N°	13343112
<i>medium</i>	10 µg	Cat.N°	13343113

ImmunoTools Excellent Quality - Advantageously priced

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