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Rec. Human Macrophage Stimulating Factor rHuM-CSF

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

Synonyms:

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

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. CSF-1 induces cells of the monocyte/macrophage lineage. It plays a role in immunological defenses, bone metabolism, lipoproteins clearance, fertility and pregnancy.

Rec. human Macrophage Colony Stimulating Factor produced in *E.coli* is a disulfide linked homodimer, non-glycosylated, polypeptide chain of 2 x 159 amino acids and a total molecular mass of 36.8 KD.

Source

Escherichia 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 <2.0ng/mL, corresponding to a specific activity of 500,000.00 units/mg.

Purity

Greater than 97% by SDS-PAGE and HPLC analysis.

Amino Acid Composition

The sequence of the first five N-terminal amino acids was found to be Met-Glu-Glu-Val-Ser.

Formulation

The protein was lyophilized with 5mM NaP, pH8.0 and 100mM NaCl. Sterile filtered white lyophilized (freeze-dried) powder.

Stability

Lyophilized recombinant human M-CSF although stable at room temperature for 3 weeks, should be stored desiccated below -18° C. Upon reconstitution of recombinant human 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 avoid freeze-thaw cycles.

Reconstitution

It is recommended to reconstitute the lyophilized recombinant human M-CSF in sterile deionised water not less than 100µg/mL, which can then 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.

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References

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- 2. Title:**Suppressor of cytokine signalling-3 at pathological levels does not regulate lipopolysaccharide or interleukin-10 control of tumour necrosis factor- α production by human monocytes.
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