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Product Datasheet

Product Name	Recombinant Human Macrophage-Colony Stimulating Factor
Cata No	CB500210
Source	Escherichia Coli.
Synonyms	CSF-1, Lanimostim, MCSF, MGC31930, M-CSF.

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. Macrophage Colony Stimulating Factor Human Recombinant 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 KD.
MCSF is purified by proprietary chromatographic techniques.

Purity

Greater than 98.0% as determined by:

(a) Analysis by RP-HPLC.
(b) Analysis by SDS-PAGE.

Specific Activity

The ED50, calculated by the dose-dependant stimulation of the proliferation of murine M-NFS-60 indicator cells was found < 5ng/ml, corresponding to a Specific Activity of 2 x 10^5 IU/mg.

Storage

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

Solubility

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

Formulation

The lyophilized protein (1mg/ml) was lyophilized with 0.1gr HSA and 0.6gr Manntiol.

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