



Product Datasheet

Product Name	Macrophage-Colony Stimulating Factor Mouse Recombinant
Cata No	CB500341
Source	<i>Escherichia Coli.</i>
Synonyms	CSF-1, Lanimostim, MCSF, 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 Mouse Recombinant produced in E.coli is a disulfide linked homodimer, non-glycosylated, polypeptide chain containing 2 x 156 amino acids and having a total molecular mass of 36.4 KD. MCSF is purified by proprietary chromatographic techniques.

Physical Appearance

Sterile Filtered White lyophilized (freeze-dried) powder.

Biological Activity

The ED50, calculated by the dose-dependant stimulation of the proliferation of murine M-NFS-60

indicator cells was found < 1ng/ml, corresponding to a Specific Activity of 1 x 10⁶ IU/mg.

Purity

Greater than 98.0% as determined by:
(a) Analysis by RP-HPLC.
(b) Analysis by SDS-PAGE.

Formulation

The protein (1mg/ml) was lyophilized with 5mM Tris, pH 8.0 + 100mM NaCl.

Stability

Lyophilized M-CSF although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution MCSF should be stored at 4°C between 2-7 days and for future use below -18°C.

Please prevent freeze-thaw cycles.

Sequence

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