

Macrophage-Colony Stimulating Factor Human Recombinant

Item Number	rAP-2143
Synonyms	Macrophage Colony Stimulating Factor, CSF-1, Lanimostim, MCSF, MGC31930, M-CSF.
Description	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.
Uniprot Accession Number	P09603
Amino Acid Sequence	MEEVSEYCSH MIGSGHLQSL QRLIDSQMET SCQITFEFVD QEQLKDPVCY LKKAFLLVQD IMEDTMRFRD NTPNAIAIVQ LQELSLRLKS CFTKDYEEHD KACVRTFYET PLQLLEKVKVNFNETKNLLD KDWNIFSKNC NNSFAECSSQ GHERQSEGS.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. Lyophilized MCSF 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.
Formulation and Purity	The MCSF protein was lyophilized with 10mM sodium Phosphate, pH-8.0 & 50mM NaCl. Greater than 97.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized MCSF in sterile 18M-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The ED50, calculated by the dose-dependent stimulation of the proliferation of murine M-NFS-60 indicator cells was found to be < 1.4-2.1ng/ml.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**