

M-CSF Recombinant Human Macrophage Colony Stimulating Factor His-Tagged

Catalog No.	CRM146A CRM146B	Quantity:	2 µg 10 µg
Alternate Names:	Macrophage Colony Stimulating Factor, CSF1, CSA, LSF, MGF, MGI-1M		
Gene ID:	1435		
Description:	Recombinant human Macrophage Colony Stimulating Factor contains 158 amino acids and a 16 amino acid Histidine-based tag for a total length of 174 amino acids. The predicted molecular weight of the recombinant M-CSF with His tag polypeptide is 20.4 kDa, but the recombinant protein migrates with an apparent molecular mass of 21 kDa in SDS-PAGE.		
Source:	<i>Hordeum vulgare</i> (barley grain). Barley grain exhibits up to 50 times less protease activity than <i>E. coli</i> or mammalian cells. Barley seed is void of any human or animal viral contaminants that could jeopardize cell culture.		
Molecular Weight:	21 kDa		
Formulation:	Lyophilized from a 0.2 µm sterile filtered solution in 5 mM Tris-HCl + 80 mM Arginine, pH 8.0		
Purity:	> 98% as determined by SDS-PAGE analysis		
Endotoxin Level:	< 0.005 ng/µg of M-CSF		
Biological Activity:	Determined by measuring the dose-dependent effect of human M-CSF on proliferation of M-NFS-60 cells. The ED ₅₀ range is 0.51-0.76 ng/ml.		
Reconstitution:	Centrifuge vial prior to opening. First add sterile distilled water to the vial to fully solubilize the protein to a concentration of 0.1-0.7 mg/ml. After complete solubilization of the protein, it can be further diluted to other aqueous solutions.		
Storage & Stability:	Store lyophilized protein at -20°C and reconstituted protein in working aliquots at -20°C with a carrier protein (0.1% HSA or BSA) as a stabilizer for long term storage. Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed. Avoid repeated freeze-thaw cycles.		

NOT FOR HUMAN USE. FOR RESEARCH ONLY. NOT FOR DIAGNOSTIC OR THERAPEUTIC USE.



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