

Source

Catalog Number: HZ-1192

Data Sheet



Human cell expressed

Animal Component-Free

Tag-Free

Endotoxin Free

Product Description Animal-free Recombinant Human M-CSF is expressed in human 293 cells and has an apparent molecular mass of 35 to 40 kDa due to glycosylation. M-CSF is a potent hematopoietic factor produced by a variety of cells including lymphocytes, monocytes, fibroblasts, endothelial cells, myoblasts, and osteoblasts. It is a key regulator of cellular proliferation, differentiation, and survivial of blood monocytes, tissue macrophages, and their progenitor cells. This cytokine is produced in a human cell expression system with serum-free, chemically defined media. **Alternative Names** CSF 1, CSF1, Lanimostim, M CSF, MCSF, M-CSF Human Embryonic Kidney cells (HEK293). HEK293-derived M-CSF protein

Specifications					
Test	Method	Specification			
Activity	Dose-dependent stimulation of the proliferation of murine M-NFS-60 cells (Mouse myeloid leukemia indicator cell line)	0.7-4.0 ng/mL			
Molecular Mass	SDS-PAGE	19 and 23 kDa reduced, 35 and 40 kDa non-reduced, homodimer, glycosylated			
Purity	SDS-PAGE	>95%			
Endotoxin	LAL	<1 EU/µg			

Activity Data	SDS-PAGE	
Recombinant M-CSF 4.0 3.5 5.5 1.0 0.5 0.001 0.01 0.1 1. 10. 100. Concentration (ng/mL)	Recombinant human M-CSF (Cat no: HZ-1192) stimulates dose-dependent proliferation of the murine mouse myloid leukemia (M- NFS-60) cell line. Cell number was quantitatively assessed by Prestoblue® Cell Viability Reagent. M- NFS-60 cells were treated with increasing concentrations of recombinant M-CSF for 48 hours. The EC50 range is 0.7- 4.0 ng/mL.	kDa Reducing Non-Reducing 235 170 130 93 70 53 42 30 23 18 14 14 10 10

www.ptglab.com

Document #: FR-QA118-101 Rev 0 Data Sheet Version #: 1

Proteintech Group, Inc. 5500 Pearl Street, Suite 400 Rosemont, IL 60612 t: 1-888-478-4522; f: 1-312-455-8408 Email: proteintech@ptglab.com

Preparation				
Shipping Temperature	ambient temperature			
Formulation	n 1x PBS, See Certificate of Analysis for details			
Reconstitution	Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein to 0.2 mg/mL in sterile 1x PBS pH 7.4 containing 0.1% endotoxin-free recombinant human serum albumin (HSA). Gently swirl or tap vial to mix.			

	Product Form	Temperature Conditions	Storage Time (From Date of Receipt)	
	Lyophilized	-20°C to -80°C	Until Expiry Date	
Stability and Storage	Lyophilized	Room Temperature	2 weeks	
	Reconstituted as per CofA	-20°C to -80°C	6 months	
	Reconstituted as per CofA	4°C	1 week	
	Avoid repeated freeze-thaw cycles.			

www.ptglab.com

Document #: FR-QA118-101 Rev 0 Data Sheet Version #: 1 Proteintech Group, Inc. 5500 Pearl Street, Suite 400 Rosemont, IL 60612 t: 1-888-478-4522; f: 1-312-455-8408 Email: proteintech@ptglab.com