

Recombinant Human Colony Stimulating Factor 1 (macrophage)

Cat. No. CSF1-357H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinanthuman CSF1is a single, non-glycosylated polypeptide chain containing 150 amino acids,MW 42.0 kDa.CSF1is expressed in SF9 cells, MW 42.0 kDa.
Species	Human
Source	Human
Description	Macrophagecolony-stimulating factor, or CSF1, is a secreted cytokine which influenceshematopoietic stem cells to differentiate into macrophages or other relatedcell types. Eukaryotic cells also produce CSF1 in order to combat intercellularviral infection. (See colony-stimulating factor.) CSF1 binds to the Colonymacrophage colony-stimulating factor 1 receptor. It may also be involved in development of theplacenta.
Form	Lyophilizedfrom a 0.2 µm filtered solution in 20 mM PB + 1% HSA + 3% Mannitol.
Purity	>95% by SDS-PAGEand HPLC.
Sequence	EEVSEYCSHMIGSGHLQSLQ RLIDSQMETS CQITFEFVDQ EQLKDPVCYL KKAFLLVQDI MEDTMRFRDN TPNAIAIVQLQELSLRLKSC FTKDYEEHDKACVRTFYETP LQLEKVKNV FNETKNLLDK DWNIFSKNCN NSFAECSSQ
Molecular Weight	42.0 kDa

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Biological Activity	Fullybiologically active when compared to standard. Determined by thedose-dependant stimulation of the proliferation of murine M-NSF-60 cells. TheED is <3.0 ng/ML.
Endotoxin Level	<1EU/g of MCSF.
Reconstitution	Centrifugevial prior to opening. Add sterile distilled water or aqueous buffer containing0.1% BSA to a concentration of 0.1-1.0 mg/mL. Please note that the additionof any carrier protein into this product may produce unwanted endotoxin. Thisdepends upon the particular application employed. Further dilutions should bemade in appropriate buffered solutions.
Storage	Stableat 2-8°C, but best kept desiccated -20°C. Upon reconstitution, stable for upto 1 week at 2-8°C. For longer term, store in working aliquots below -20°C. Avoidrepeated freeze/thaw cycles.
OfficialSymbol	CSF1
GENE INFORMATION	
Gene Name	CSF1colony stimulating factor 1 (macrophage) [Homo sapiens]
Synonyms	CSF1; colonystimulating factor 1 (macrophage); MCSF; M-CSF; CSF-1; MGC31930; macrophagecolony stimulating factor; macrophage colony-stimulating factor 1;Lanimostim; lanimostim; OTTHUMP00000013362; OTTHUMP00000013363;OTTHUMP00000013364; OTTHUMP0-0000013365; EC 2.7.10.1
Gene ID	1435
mRNA Refseq	NM_000757

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Protein Refseq	NP_000748
MIM	120420
UniProt ID	P09603
Chromosome Location	1p21-p13
Pathway	Cytokine-cytokinereceptor interaction; Cytokines and Inflammatory Response; Hematopoietic celllineage; Integrins in angiogenesis; Osteoclast differentiation; Rheumatoidarthritis; Signaling events mediated by PTP1B; Signaling events mediated byTCPTP
Function	cytokineactivity; growth factor activity; macrophage colony-stimulating factorreceptor binding; protein homodimerization activity
PDBrendering based on 1hmc.	