

Recombinant Human Colony Stimulating Factor 1 (macrophage)

Cat. No. CSF1-5383H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant HumanCSF1 was expressed in Hordeum vulgare (barley grain). Its molecular weight is 21000 Dalton.
Species	Human
Source	Hordeum Vulgare
Description	Recombinant humanCSF1 (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.
Form	Lyophilized from a 0.2 µm sterile filtered solution in 5 mM Tris-HCl + 80 mM Arginine, pH 8.0.
Molecular Weight	21 kDa
Purity	> 98% as determined by SDS-PAGE analysis
Biological Activity	Determined by measuring the dose-dependent effect of human M-CSF on proliferation of M-NFS-60 cells. The ED50 range is 0.51-0.76 ng/ml.
Endotoxin Level	< 0.005 ng/g of CSF1

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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	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.

Official Symbol CSF1

GENE INFORMATION

Gene Name	CSF1 colony stimulating factor 1 (macrophage) [Homo sapiens]
Synonyms	CSF1; colony stimulating factor 1 (macrophage); MCSF; MGC31930; colony stimulating factor 1; OTTHUMP00000013363; OTTHUMP00000013364; Macrophage colony stimulating factor; M-CSF; CSF-1; Lanimostim
Gene ID	1435
mRNA Refseq	NM_000757
Protein Refseq	NP_000748
MIM	120420
UniProt ID	P09603
Chromosome	1p21-p13

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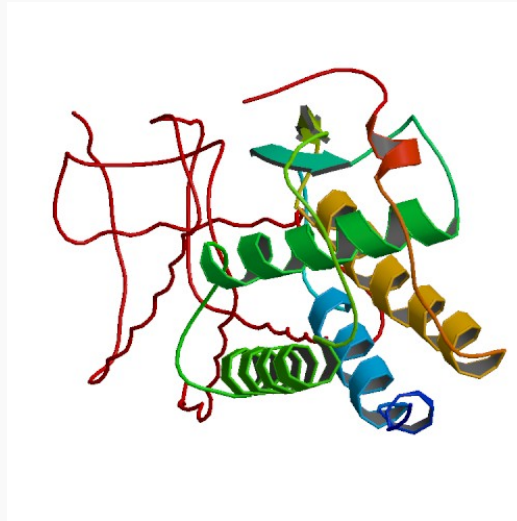
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Location**Pathway**

Cytokine-cytokinereceptor interaction; Cytokines and Inflammatory Response; Hematopoietic cell lineage; Integrins in angiogenesis; Integrins in angiogenesis; Osteoclast differentiation; Rheumatoid arthritis; Rheumatoid arthritis; Signaling events mediated by PTP1B; Signaling events mediated by TCPTP

Function

cytokine activity; growth factor activity; macrophage colony stimulating factor receptor binding; protein binding; protein homodimerization activity

PDB rendering based on 1hmc.

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