Recombinant Human CSF1, His-tagged

Cat. No. CSF1-96H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human M-CSF, fused to His-tag at N-terminus, was expressed as insoluble protein aggregate in*E.coli*and purified by conventional chromatography, after refolding of the isolated inclusion bodies in a renaturation buffer. MW = 20.7 kDa (179aa).
Species	Human
Source	E.coli
Description	Macrophage colony stimulating factor (M-CSF), as known as CSF-1, one of the hematopoietic growth factorsthat regulate the growth and differentiation of blood cells. This protein is produced by monocytes, granulocytes, endothelial cells, and fibroblasts. It stimulates the formation of macrophage colonies, enhances antibody-dependent, cell-mediated cytotoxicity by monocytes and macrophages, and inhibits bone resorption by osteoclasts.
Amino Acid Sequence	MGSSHHHHHH SSGLVPRGSH MEEVSEYCSH MIGSGHLQSL QRLIDSQMET SCQITFEFVD QEQLKDPVCY LKKAFLLVQD IMEDTMRFRD NTPNAIAIVQ LQELSLRLKS CFTKDYEEHD KACVRTFYET PLQLLEKVKN VFNETKNLLD KDWNIFSKNC NNSFAECSSQ DVVTKPDCN
Purity	> 90% by SDS – PAGE.
Form	Liquid. In 20 mM Tris-HCl buffer (pH8.0), 2mM DTT, 10% glycerol.

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Endotoxin Level	< 1.0 EU per 1 μg of protein (determined by LAL method).
Concentration	1 mg/ml (determined by Bradford assay).
Stability	Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

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; OTTHUMP00000013362
Gene ID	1435
mRNA Refseq	NM_000757
Protein Refseq	NP_000748
MIM	120420
UniProt ID	P09603
Chromosome Location	1p21-p13
Pathway	Cytokine-cytokine receptor interaction; Hematopoietic cell lineage
Function	cytokine activity; growth factor activity; macrophage colony stimulating factor receptor

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	binding; protein binding; protein homodimerization activity

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