Active Glycosylated Recombinant Human CSF1 Homodimer

Cat. No. CSF1-045H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human macrophage colony-stimulating factor (M-CSF) is a homodimer composed of two glycosylated polypeptide chains, each containing 149 amino acid residues.
Species	Human
Source	Yeast
Description	The protein encoded by this gene is a cytokine that controls the production, differentiation, and function of macrophages. The active form of the protein is found extracellularly as a disulfide-linked homodimer, and is thought to be produced by proteolytic cleavage of membrane-bound precursors. The encoded protein may be involved in development of the placenta. Alternate splicing results in multiple transcript variants.
Form	Sterile lyophilized powder
Molecular Mass	17.4kDa (Monomer)
Bio-activity	The specific activity is determined by a cell-proliferation assay using the M-NFS-60-dependent cell line and is ≥1.5 × 10^8 IU/mg.
Endotoxin	<1 EU/μg determined by LAL.
Purity	≥97%

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Storage	Lyophilized samples remain stable for 36 months when stored at –20 to –70 centigrade from the date of manufacture. After reconstitution, the cytokine can be kept for one month at 2–8 centigrade under sterile conditions, or for three months at –20 to –70 centigrade in a manual-defrost freezer, without significant loss of activity. Avoid repeated freeze-thaw cycles.
Storage Buffer	This product is supplied as a sterile lyophilized powder in a buffer of PBS, pH7.4.
Reconstitution	Before opening the vial, centrifuge at 10, 000 rpm for 30–60 seconds, or at 3, 000 rpm for 5 minutes, then reconstitute with 0.2 mL of sterile water.

GENE INFORMATION

Gene Name	CSF1 colony stimulating factor 1 (macrophage) [Homo sapiens (human)]
Official Symbol	CSF1
Synonyms	CSF1; colony stimulating factor 1 (macrophage); macrophage colony-stimulating factor 1; M CSF; MCSF; MGC31930; lanimostim; CSF-1
Gene ID	1435
mRNA Refseq	NM_000757
Protein Refseq	NP_000748
MIM	120420
UniProt ID	P09603

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