

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 $\geq 1.5 \times 10^8$ IU/mg.
Endotoxin	<1 EU/ μ g determined by LAL.
Purity	$\geq 97\%$

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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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