

Active Recombinant Human CSF1 Protein

Cat. No. CSF1-223C **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CSF1 Protein without tag was expressed in CHO.
Species	Human
Source	CHO
Description	Human Macrophage-Colony Stimulating Factor (M-CSF), also known as Colony Stimulating Factor-1 (CSF-1), can stimulate the survival, proliferation and differentiation of mononuclear phagocytes, in addition to the spreading and motility of macrophages. M-CSF is mainly produced by monocytes, macrophages, fibroblasts, and endothelial cells. M-CSF interaction with its receptor, c-fms, has been implicated in the growth, invasion, and metastasis of several diseases, including breast and endometrial cancers.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	ED50 < 5 ng/mL, measured in a cell proliferation assay using Murine M-NFS-60 cells, corresponding to a specific activity of > 2 × 10 ⁵ units/mg.
Molecular Mass	32-40 kDa, observed by non-reducing SDS-PAGE.
AA Sequence	EEVSEYCSHMIGSGHLQSLQRLIDSQMETSCQITFEFVDQEQLKDPVCYLKKAFLLV QDIMEDTMRFRDNTPNIAIAIVQLQELSLRLKSCFTKDYEEDKACVTRTFYETPLQLE KVKNVFNETHKLLDKDWNIFSKNCNNSFAECSSQGHHERQSEGS

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Endotoxin	< 0.2 EU/μg, determined by LAL method.
Purity	> 95% as analyzed by SDS-PAGE and HPLC.
Storage	Lyophilized recombinant human Macrophage-Colony Stimulating Factor (rhM-CSF) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rhM-CSF should be stable up to 1 week at 4 centigrade or up to 2 months at -20 centigrade.
Storage Buffer	Lyophilized after extensive dialysis against PBS.
Reconstitution	Reconstituted in ddH ₂ O or PBS at 100 μg/mL.

GENE INFORMATION

Gene Name	CSF1 colony stimulating factor 1 (macrophage) [Homo sapiens]
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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