

Active GMP Recombinant Human CSF1 Protein

Cat. No. CSF1-110HG **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human CSF1, Glu33-Ser190, was produced in E. coli using non-animal reagents in an animal-free facility under cGMP guidelines.
Species	Human
Source	E.coli
ProteinLength	33-190 a.a.
Form	Lyophilized from a 0.2 µm filtered solution in PBS.
Bio-activity	Measured in a cell proliferation assay using M-NFS-60 mouse myelogenous leukemia lymphoblast cells. Nakoinz, I. et al. (1990) J. Immunol. 145:860. The ED50 for this effect is typically 0.5-1.5 ng/mL. The specific activity of Recombinant Human M-CSF is approximately 1.68×10^5 IU/µg, which is calibrated against recombinant human M-CSF WHO International Standard (NIBSC code: 89/512).
Molecular Mass	Predicted Molecular Mass: 18.5 (monomer) kDa SDS-PAGE: 37 kDa, reducing conditions
N-terminal Sequence Analysis	Met-Glu-Glu-Val-Ser-Glu-Try-(Cys)-Ser-His
Endotoxin	<0.01 EU per 1 µg of the protein by the LAL method.

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Purity	>97%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Storage	Avoid repeated freeze-thaw cycles. 12 months, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Reconstitution	Reconstitute at 50-500 µg/mL in PBS.
Quality Statement	Our GMP proteins are produced according to relevant sections of the following documents: WHO TRS, No. 822, 1992 Annex 1, Good Manufacturing Practices for Biological Products; USP Chapter 1043, Ancillary Materials for Cell, Gene and Tissue-Engineered Products and USP Chapter 92, Growth Factors and Cytokines Used in Cell Therapy Manufacturing.
Shipping	The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

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

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Protein Refseq	NP_000748
MIM	120420
UniProt ID	P09603

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