Active Recombinant Human CSF1 Protein (Glu33-Ser190), GMP Grade, Animal-Free

Cat. No. CSF1-18HG **Lot. No.** (See product label)

SPECIFICATION

Product Overview	GMP recombinant human M-CSF protein (Glu33-Ser190) with an N-terminal Met without tag was expressed in E. coli, produced using non-animal reagents in an Animal-Free laboratory and manufactured and tested under cGMP guidelines.
Species	Human
Source	E.coli
ProteinLength	Glu33-Ser190
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. [provided by RefSeq, Sep 2011]
Form	Disulfide-linked homodimer
Bio-activity	Measured in a cell proliferation assay using M-NFS-60 mouse myelogenous leukemia lymphoblast cells. The ED50 for this effect is 0.5-1.5 ng/mL. The specific activity of Recombinant Human M-CSF is >6.0 x 107 IU/mg, which is calibrated against the human M-CSF WHO International Standard.

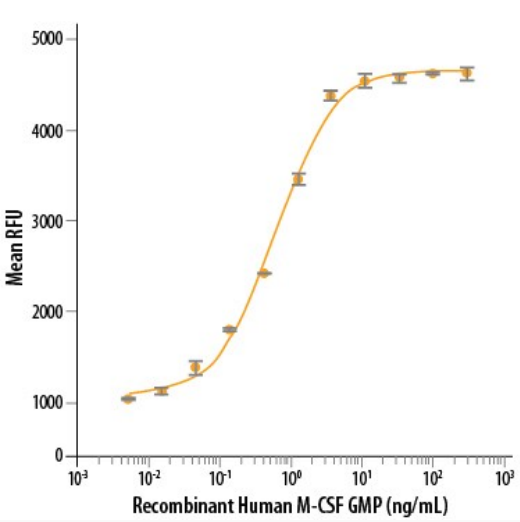
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Molecular Mass	Predicted Molecular Mass: 18.5 kDa (monomer) SDS-PAGE: 37 kDa, non-reducing conditions
N-terminal Sequence Analysis	Met-Glu-Glu-Val-Ser-Glu-Try-(Cys)-Ser-His
Endotoxin	<0.01 EU/ μg of the protein by the LAL method.
Purity	>97%, by SDS-PAGE with silver staining, under reducing conditions.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. A minimum of 12 months when stored at ≤ -20 centigrade as supplied. Refer to lot specific COA for the Use by Date. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, ≤ -20 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in PBS.
Reconstitution	Reconstitute at 50-500 μg/mL in PBS.
Shipping	The product is shipped with polar packs.

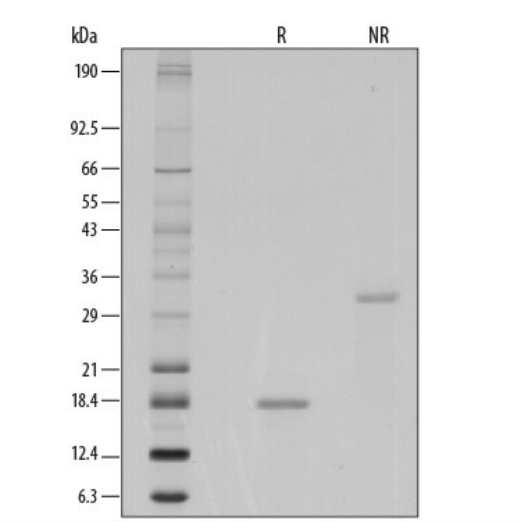
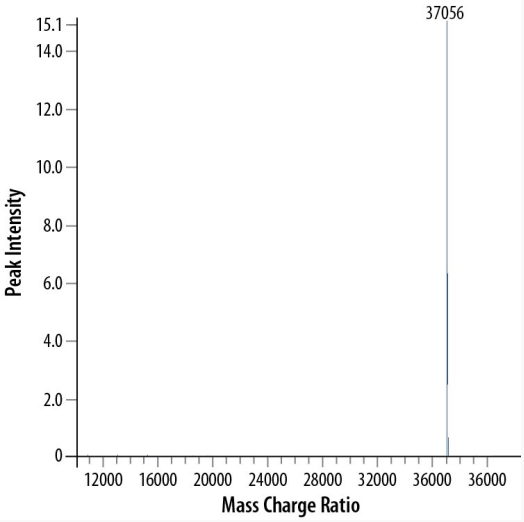
GENE INFORMATION

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;

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Gene ID	1435
mRNA Refseq	NM_172211
Protein Refseq	NP_757350
MIM	120420
UniProt ID	P09603
Bioactivity	

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SDS-PAGE	
Mass Spectrometry	

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