

M-CSF/CSF1 Protein, Human, Recombinant (His & Avi), Biotinylated

General Information

Synonyms:	CSF-1;M-CSF;MGC31930;MCSF;CSF1;Lanimostim
Protein Construction:	Glu33-Asn190
Species:	Human
Expression Host:	HEK293 Cells
Accession:	P09603-1
Molecular Weight:	21.3 kDa (predicted). Due to glycosylation, the protein migrates to 27-37 kDa based on Tris-Bis PAGE result.

QC Testing

Biological Activity:	Immobilized Human M-CSF R, hFc Tag at 5µg/ml (100µl/well) on the plate. Dose response curve for Biotinylated Human M-CSF, His Tag with the EC50 of 19.4ng/ml determined by ELISA.
Purity:	> 95% as determined by Tris-Bis PAGE; > 95% as determined by HPLC
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	Lyophilized from a solution filtered through a 0.22 µm filter, containing PBS (pH 7.4). Typically, 8% trehalose is incorporated as a protective agent before lyophilization.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in distilled water. The product concentration should not be less than 100 µg/ml. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

It is recommended to store recombinant proteins at -20°C to -80°C for future use. Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

CSF-1, also known as M-CSF, is a four alpha-helical-bundle cytokine that is the primary regulator of macrophage survival, proliferation and differentiation. CSF-1 is also essential for the survival and proliferation of osteoclast progenitors. CSF-1 is cytokine that plays an essential role in the regulation of survival, proliferation and differentiation of hematopoietic precursor cells, especially mononuclear phagocytes, such as macrophages and

monocytes.

Reference

Cannarile M A, et al. Colony-stimulating factor 1 receptor (CSF1R) inhibitors in cancer therapy[J]. Journal for ImmunoTherapy of Cancer, 2017, 5(1):53.

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