

RP01221

Leader in Biomolecular Solutions for Life Science



Recombinant Human CSF-1/M-CSF Protein

Catalog No.: RP01221

Recombinant

1 Publications

Sequence Information

Species	Gene ID	Swiss Prot
HEK293 cells	1435	P09603-1

Tags

C-His

Synonyms

CSF1;CSF-1;MCSF

Product Information

Source	Purification
HEK293 cells	> 95% by SDS-PAGE.

Endotoxin

< 0.1 EU/μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 μm filtered solution of PBS, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize freeze-thaw cycles.

Contact



www.abclonal.com

Background

Basic Information

Description

Recombinant Human CSF-1/M-CSF Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Glu33-Arg255) of human M-CSF/CSF-1 (Accession #NP_000748.3) fused with a 6xHis tag at the C-terminus.

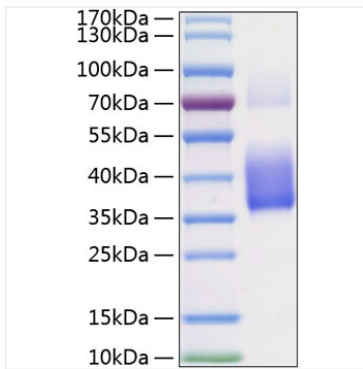
Bio-Activity

1. Measured by its binding ability in a functional ELISA. Immobilized Human CSF1 at 1 μg/mL (100 μL/well) can bind Human CSF1R with a linear range of 0.01-7.8 ng/mL. 2. Measured in a cell proliferation assay using M-NFS-60 mouse myelogenous leukemia lymphoblast cells. The ED₅₀ for this effect is typically 1.53-6.14 ng/mL, corresponding to a specific activity of 1.63×10^5 - 6.53×10^5 units/mg.

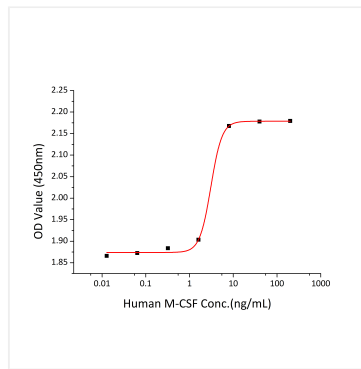
Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt. After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week. Avoid repeated freeze/thaw cycles.

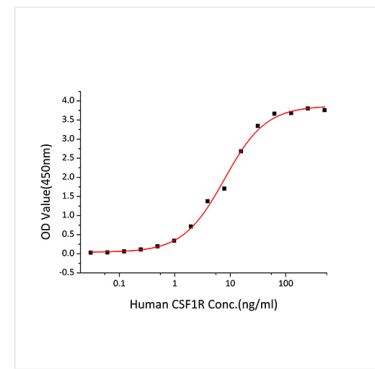
Validation Data



Recombinant Human CSF-1/M-CSF Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Recombinant Human M-CSF promotes the proliferation of M-NFS-60 mouse myelogenous leukemia lymphoblast cells. The ED_{50} for this effect is typically 1.53-6.14 ng/mL, corresponding to a specific activity of 1.63×10^5 - 6.53×10^5 units/mg.



Immobilized Human CSF1 at $1 \mu\text{g/mL}$ ($100 \mu\text{L/well}$) can bind Human CSF1R with a linear range of 0.01-7.8 ng/mL.