

CERTIFICATE OF ANALYSIS

Product name:	Recombinant Human Macrophage colony-stimulating factor (rHu M-CSF)
Catalog:	AC52379
Size :	100 µg
Lot:	1041230831
Source:	<i>Escherichia coli</i> .
Molecular Weight:	Approximately 18.5kDa, a single non-glycosylated polypeptide chain containing 159 amino acids.
Description:	Accession # NP_757350.2, Glu33-Ser190, with an N terminal Met.
SDS-PAGE:	18.5 kDa, under reducing conditions, 37 kDa, non-reducing conditions.
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.
Formulation:	Lyophilized from a 0.2 µm filtered solution in PBS.
Reconstitution:	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute to a concentration of 0.1-1.0 mg/mL in sterile distilled H₂O . Stock solutions should be apportioned into working aliquots and stored at -20 °C to -70 °C. Further dilutions should be made in appropriate buffered solutions. Do not reconstitute in cell culture media directly.
Shipping:	The product is shipped at 2 °C to 8 °C. Upon receipt, store it immediately at the temperature recommended below.
Stability & Storage:	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. A minimum of 12 months from date of shipping when stored at -20°C to -70°C as supplied. 4 weeks at 2 °C to 8 °C under sterile conditions after reconstitution. 4 months at -20 °C to -70 °C under sterile conditions after reconstitution.

Quality control assays		
Test	Standard	Result
Endotoxin	< 0.1EU//µg	Pass
Purity	> 95%	Pass
Sterility	Negative	Pass
Bioactivity-ELISA	Immobilized Recombinant Human M-CSF (Catalog # AC52379) at 0.2µg/well can bind Human M-CSF R with a linear range of 367.8 to 614.0 ng/mL.	Pass
Bioactivity-Cell based assay	Recombinant Human M-CSF (Catalog # AC52379) stimulates proliferation of RAW264.7 cells, the EC50 for this effect is 0.02255 to 0.05065 ng/mL.	Pass

This product lot has passed Acnovia's QC testing.

