

Human CSF1R/MCSF Receptor/CD115 (His Tag) recombinant protein



Catalog Number: 503773

General Information

Gene Name Synonym

CSF-1 receptor; Proto-oncogene c-Fms

Protein Construction

A DNA sequence encoding the extracellular domain (Met 1-Glu512) of human M-CSFR (NP_005202.2) precursor was expressed with the fused C-terminal polyhistidine-tagged.

Organism

Human

Expression Host

Human Cells

QC Testing

Activity

1. Measured by its binding ability in a functional ELISA.
2. Immobilized human CSF1R (Cat:503773) at 10 µg/mL (100 µl/well) can bind biotinylated human CSF-1 (Cat:501502), The EC_{50} of biotinylated human CSF-1 (Cat:501502) is 8 ng/mL.
3. Measured by its ability to inhibit the human CSF-induced proliferation of M-NFS-60 mouse myelogenous leukemia lymphoblast cells. The ED_{50} for this effect is typically 6-30 µg/mL in the presence of 3 ng/ml Recombinant Human M-CSF.

Purity

> 98 % as determined by SDS-PAGE

Endotoxin

< 1.0 EU per µg of the protein as determined by the LAL method

Stability

Samples are stable for up to twelve months from

date of receipt at -70°C

Predicted N terminal

Ile 20

Molecular Mass

The recombinant human M-CSFR contains 504 amino acids after the removal of signal peptide with a calculated molecular mass of 56 kDa. As a result of glycosylation, it migrates as an approximately 85-95 kDa protein in SDS-PAGE under reducing conditions.

Formulation

- Lyophilized from sterile PBS, pH 7.4
1. 5 % trehalose and mannitol are added as protectants before lyophilization.
 2. Please contact us for any concerns or special requirements.

Usage Guide

Storage

Store it under sterile conditions at -20°C to -80°C. It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

Reconstitution

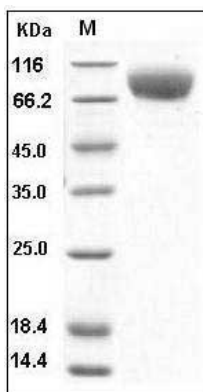
Adding sterile water, prepare a stock solution of 0.25 mg/ml. Concentration is measured by UV-Vis.

SDS-PAGE

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(His Tag) SDS-PAGE