

Recombinant Rat CSF-1/M-CSF Protein

Catalog No.: RP01847

Sequence Information

Species Gene ID

Rat 78965

Swiss Prot Tags

Q8JZQ0 C-His

Synonyms

Macrophage colony-stimulating factor 1, CSF-1, MCSF, Proteoglycan macrophage colony-stimulating factor, PG-M-CSF, Cleaved into: Processed macrophage colony-stimulating factor 1, Macrophage colony-stimulating factor 1 43 kDa subunit, Csf1, Csfm

Product Information

Source Purification

HEK293 cells ≥ 95 % as determined by SDS-PAGE.

Calculated MW Observed MW

28.50 kDa 40–55 kDa

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.

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 free-thaw cycles.

Background

Macrophage colony-stimulating factor (M-CSF), also known as colony-stimulating factor-1 (CSF-1), is a hemopoietic growth factor that regulates the survival, proliferation, differentiation and function of the cells of the mononuclear phagocyte lineage. M-CSF is produced by a variety of cell types and acts both locally and humorally in an autocrine and paracrine manner. Through differential mRNA splicing and posttranslational proteolytic processing and modification, M-CSF is expressed in three biologically-active isoforms: a secreted glycoprotein; a secreted proteoglycan; and a membrane spanning cell-surface glycoprotein.

Basic Information

Description

Recombinant Rat CSF-1/M-CSF Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met1–Ser255) of Rat CSF-1/M-CSF (Accession #NP_076471.3) fused with a His tag at the C-terminus.

Activity

Measured in a cell proliferation assay using M-NFS-60 mouse myelogenous leukemia lymphoblast cells. The ED₅₀ for this effect is 5.63–22.51 ng/mL, corresponding to a specific activity of 4.44×10⁴~1.78×10⁵ units/mg.

Shipping

Lyophilized proteins are shipped at ambient temperature. Liquid proteins are shipped at frozen temperature with dry ice. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C

Operational Notes

For your safety and health, please wear a lab coat and disposable gloves for handling.

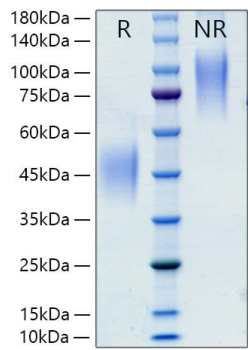
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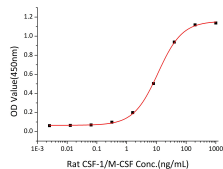
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Validation Data



Recombinant Rat CSF-1/M-CSF Protein was determined by SDS-PAGE under reducing (R) and non-reducing (NR) conditions.



Recombinant Rat CSF-1/M-CSF stimulates cell proliferation assay using M-NFS-60 mouse myelogenous leukemia lymphoblast cells. The ED₅₀ for this effect is 5.63-22.51 ng/mL, corresponding to a specific activity of 4.44×10⁴~1.78×10⁵ units/mg.