

Recombinant Mouse CSF-1/M-CSF Protein (With Carrier)

Catalog No.: RP01216SC Recombinant

Sequence Information

Species Gene ID Swiss ProtMouse 12977 P07141-1

Tags NO-tag

Synonyms

Csf1; Csfm[Macrophage colonystimulating factor 1; CSF-1; MCSF;Processed macrophage colonystimulating factor 1

Product Information

Source

Purification

HEK293 cells ≥ 9

≥ 90% as determined by SDS-

PAGE.

Calculated MW Observed MW

21.44 kDa 20-25 kDa

Endotoxin

< 0.01 EU/ μg of the protein by LAL method.

Formulation

Lyophilized from a 0.22 µm filtered solution of PBS, pH 7.4 with 50 µg BSA per 1 µg as a carrier protein.

Reconstitution

Reconstitute to a concentration of 100 µg/mL in sterile PBS. Avoid vortex or vigorously pipetting the protein. Aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

Macrophage colony-stimulating factor 1, also known as CSF-1, M-CSF, is a single-pass membrane protein which is disulfide-linked as a homodimer or heterodimer. Granulocyte / macrophage colony-stimulating factors are cytokines that act in hematopoiesis by controlling the production, differentiation, and function of 2 related white cell populations of the blood, the granulocytes and the monocytesmacrophages. M-CSF/CSF-1 is known to facilitate monocyte survival, monocyte-tomacrophage conversion, and macrophage proliferation. M-CSF/CSF-1 is a secreted cytokine which influences hemopoietic stem cells to differentiate into macrophages or other related cell types. It binds to the Colony stimulating factor 1 receptor. M-CSF/CSF-1 may also be involved in development of the placenta. The active form of M-CSF/CSF-1 is found extracellularly as a disulfide-linked homodimer, and is thought to be produced by proteolytic cleavage of membrane-bound precursors. M-CSF/CSF-1 induces cells of the monocyte/macrophage lineage. It also plays a role in immunological defenses, bone metabolism, lipoproteins clearance, fertility and pregnancy. Upregulation of M-CSF/CSF-1 in the infarcted myocardium may have an active role in healing not only through its effects on cells of monocyte/macrophage lineage, but also by regulating endothelial cell chemokine expression.

Basic Information

Description

Recombinant Mouse CSF-1/M-CSF Protein (With Carrier) is produced by HEK293 cells expression system. The target protein is expressed with sequence (Met1-Pro187) of Mouse CSF-1/M-CSF (Accession #NP_031804.3.) fused with No tag.

Bio-Activity

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

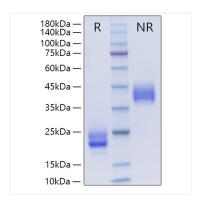
After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

Avoid repeated freeze/thaw cycles.

Operational Notes

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

Validation Data



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