

Recombinant Mouse CSF1R/M-CSF R/CD115 Protein

Catalog No.: RP01554

Sequence Information

Species **Gene ID**
Mouse 12978

Swiss Prot **Tags**
P09581 C-His

Synonyms

C-FMS ,CD115 ,CSF-1R ,CSFR ,
FIM2 ,FMS ,HDLS ,M-CSF-R ,MCSF
Receptor,CSF1R

Product Information

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

Calculated MW **Observed MW**
56.06 kDa 70-80 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

The recombinant human CSF1R/GST chimera consists of 667 amino acids with a molecular weight of 76 kDa. It migrates as an about 75 kDa band in SDS-PAGE under reducing conditions. M-CSFR encoded by the proto-oncogene c-fms is the receptor for colony stimulating factor 1 (CSF1R), a cytokine involved in the proliferation, differentiation, and activation of macrophages. This cell surface glycoprotein is consisted by an extracellular ligand-binding domain, a single membrane-spanning segment, and an intracellular tyrosine kinase domain. CSF1R is a receptor for a cytokine called colony stimulating factor 1, The protein encoded by the CSFR1 gene is the receptor for colony stimulating factor 1, a cytokine which controls the production, differentiation, and function of macrophages. This receptor mediates most, if not all, of the biological effects of this cytokine. Ligand binding activates CSFR1 through a process of oligomerization and transphosphorylation. Mutations in CSF1R are associated with chronic myelomonocytic leukemia and type M4 acute myeloblastic leukemia. Increased levels of CSF1R1 are found in microglia in Alzheimer's disease and after brain injuries. The role of CSF1 and CSF1R in normal and neoplastic mammary development that may elucidate potential relationships of growth factor-induced biological changes in the breast during pregnancy and tumor progression.

Basic Information

Description

Recombinant Mouse CSF1R/M-CSF R/CD115 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ala20-Ser511) of mouse CSF1R/M-CSF R/CD115 (Accession #NP_001032948.2) fused with a 6×His tag at the C-terminus.

Activity

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.

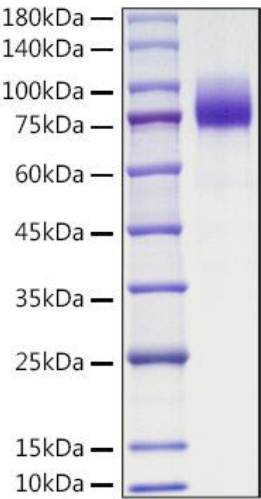
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Validation Data



Recombinant Mouse CSF1R/M-CSF R/CD115 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.