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Recombinant Mouse CSF1R/M-CSF R/CD115 Protein

Catalog No.: RP01554 Recombinant

Sequence Information

Species	Gene ID	Swiss Prot
Mouse	12978	P09581

Tags
C-His

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

Product Information

Source
HEK293 cells

Purification
≥ 95 % as determined by SDS-PAGE.

Calculated MW
56.06 kDa

Observed MW
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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

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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.

Bio-Activity

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

Storage
Store at -20℃.Store the lyophilized protein at -20℃ to -80 ℃ up to 1 year from the date of receipt.
After reconstitution, the protein solution is stable at -20℃ for 3 months, at 2-8℃ 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.

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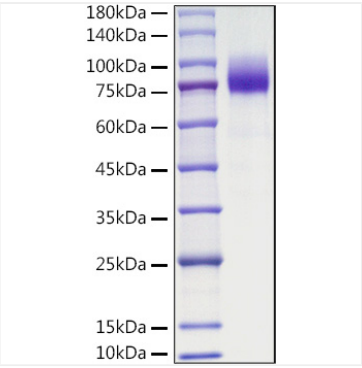
Validation Data



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