Cat. No. PME100067



PRODUCT INFORMATION

Target CSF1R

CSF1R;C-FMS;CD115;CSFR;FIM2;FMS;M-CSFR **Synonyms**

Recombinant human CSF1R protein with C-Description

terminal 6×His tag

Delivery In Stock **Uniprot ID** P07333 **Expression Host HEK293** Tag C-6×His Tag

Molecular Characterization

Purity

Background

CSF1R(Ile20-Leu514) 6×His tag

The protein has a predicted molecular mass of **Molecular Weight** 55.6 kDa after removal of the signal peptide.

The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue

staining.

Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before

Formulation & lyophilization. Please see Certificate of Analysis Reconstitution for specific instructions of reconstitution.

Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not

intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing). Storage & Shipping

Lyophilized proteins are shipped at ambient

temperature.

The protein encoded by this 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 the receptor kinase through a process of oligomerization and transphosphorylation. The encoded protein is a tyrosine kinase transmembrane receptor and member of the CSF1/PDGF receptor family of

tyrosine-protein kinases. Mutations in this gene have been associated with a predisposition to myeloid malignancy. The first intron of this gene contains a transcriptionally inactive ribosomal protein L7 processed pseudogene oriented in the opposite direction. Alternative splicing results in multiple transcript variants. Expression of a splice variant from an LTR promoter has been found in Hodgkin lymphoma (HL), HL cell lines and

anaplastic large cell lymphoma.

Usage Research use only

Conjugate Unconjugated

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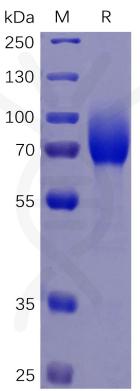


Figure 1. Human CSF1R Protein, His Tag on SDS-PAGE under reducing condition.

Human CSF1R, His tagged protein ELISA

 $0.2~\mu g$ of Human CSF1R, His tagged protein per well

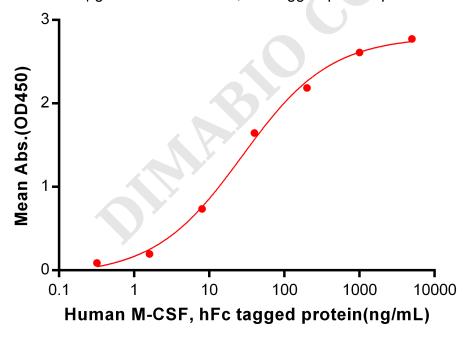


Figure 2. ELISA plate pre-coated by 2 μ g/ml (100 μ l/well) Human CSF1R, His tagged protein (PME100067) can bind Human M-CSF, hFc Tagged protein PME100550 in a linear range of 0.32-200 ng/ml.

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Human CSF1R, His tagged protein ELISA

0.1 μg of Human CSF1R, His tagged protein per well

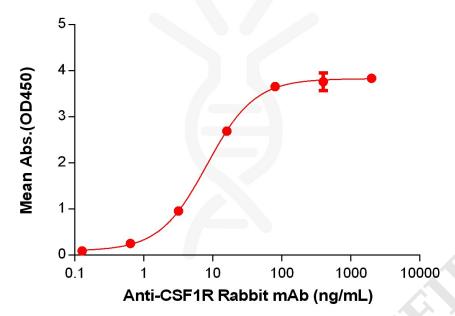


Figure 3. ELISA plate pre-coated by 1 μ g/mL (100 μ L/well) Human CSF1R Protein, His Tag (PME100067) can bind Anti-CSF1R Rabbit mAb in a linear range of 3.2-16 ng/mL.

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