

For Research Use Only

# Recombinant Mouse CSF1R protein (rFc Tag)



Catalog Number: Eg1816

## Basic Information

**Species:**  
Mouse

**Purity:**  
>90 %, SDS-PAGE

**Tag:**  
rFc Tag

## Technical Specifications

**Purity:**

>90 %, SDS-PAGE

**Endotoxin Level:**

<0.1 EU/  $\mu$ g protein, LAL method

**Source:**

HEK293-derived Mouse CSF1R protein Ala20-Ser511 (Accession# P09581) with a rabbit IgG Fc tag at the C-terminus.

**GeneID:**

12978

**Accession:**

P09581

**Predicted Molecular Mass:**

81.5 kDa

**SDS-PAGE:**

90-130kDa, reducing (R) conditions

**Formulation:**

Lyophilized from 0.22  $\mu$ m filtered solution in PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

## Biological Activity

Not tested

## Storage and Shipping

**Storage:**

It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20°C to -80°C as lyophilized proteins.
- 3 months, -20°C to -80°C under sterile conditions after reconstitution.

**Shipping:**

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

## Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

## Background

The CSF-1 receptor (CSF1R), also called CD115, is activated by the homodimeric growth factors colony-stimulating factor-1 (CSF-1) and interleukin-34 (IL-34). It plays important roles in development and in innate immunity by regulating the development of most tissue macrophages and osteoclasts, of Langerhans cells of the skin, of Paneth cells of the small intestine, and of brain microglia. It also regulates the differentiation of neural progenitor cells and controls functions of oocytes and trophoblastic cells in the female reproductive tract. Owing to this broad tissue expression pattern, it plays a central role in neoplastic, inflammatory, and neurological diseases.

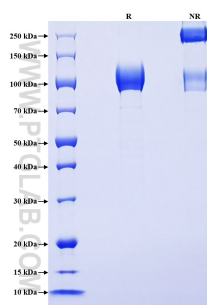
## References

1. E Richard Stanley, Violeta Chitu. (2014) Cold Spring Harb Perspect Biol. Jun 2;6(6):a021857.
2. Haishan Lin, et al. (2008) Science. May 9;320(5877):807-11.
3. David A Hume, Kelli P A MacDonald. (2012) Blood. Feb 23;119(8):1810-20.
4. Violeta Chitu, E Richard Stanley. (2006) Curr Opin Immunol. Feb;18(1):39-48.

## Synonyms

CD115, CSF 1R, CSF-1 receptor, Csfmr, EC:2.7.10.1

## Selected Validation Data



Purity of Recombinant Mouse CSF1R was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) and non-reducing (NR) conditions and stained using Coomassie blue.

For technical support and original validation data for this product please contact

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