

For Research Use Only

Recombinant Mouse G-CSFR protein (mFc Tag)



Catalog Number: Eg4404

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE

Tag:
mFc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ μ g protein, LAL method

Source:

HEK293-derived Mouse G-CSFR protein Cys26-Asp626 (Accession# P40223) with a mouse IgG Fc tag at the C-terminus.

GeneID:

12986

Accession:

P40223

Predicted Molecular Mass:

94.0 kDa

SDS-PAGE:

150-180 kDa, reducing (R) conditions

Formulation:

Lyophilized from 0.22 μ 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

Csf3r, or the colony-stimulating factor 3 receptor (CSF3R), is a protein that is vital for the regulation of granulopoiesis, neutrophil function, and hematopoietic stem cell mobilization (PMID: 29572350). CSF3R is also expressed in various tissues, with biased expression in the bone marrow, appendix, and other tissue. Mutations in the CSF3R gene can lead to various hematological disorders. Acquired activating heterozygous variants in CSF3R are the main cause of chronic neutrophilic leukemia, a hyperproliferative disorder, while biallelic germ line hypomorphic variants in CSF3R are a rare cause of severe congenital neutropenia, a hypoproliferative condition. Additionally, heterozygous germ line CSF3R variants have been identified as risk alleles for developing both myeloid and lymphoid malignancies (PMID: 33108454).

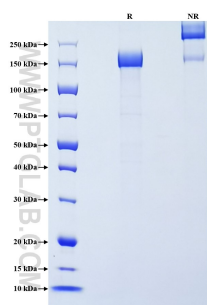
References

1. Zhang H. et al. (2018). J Biol Chem. 293(19):7387-7396.
2. Trottier AM. (2020). Blood Adv. 4(20):5269-5284.

Synonyms

CD114, Csf3r, Csfgr, G-CSF receptor, G-CSF-R

Selected Validation Data



Purity of Recombinant Mouse G-CSFR 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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