

For Research Use Only

Recombinant Rat M-CSF protein (rFc Tag)



Catalog Number: Eg3414

Basic Information

Species:
Rat

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE

Endotoxin Level:
<0.1 EU/μg protein, LAL method

Source:
HEK293-derived Rat M-CSF protein Glu33-Pro186 (Accession# Q8JZQ0-1) with a rabbit IgG Fc tag at the C-terminus.

GeneID:
78965

Accession:
Q8JZQ0-1

Predicted Molecular Mass:
44.3 kDa

SDS-PAGE:
46-65 kDa, reducing (R) conditions

Formulation:
Lyophilized from 0.22 μm 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

M-CSF, also called colony-stimulating factor-1 or CSF-1, is a haematopoietic growth factor, which controls survival, proliferation, differentiation and function of mononuclear phagocytes. It also plays a role in bone metabolism, fertility, pregnancy and inflammatory processes. M-CSF may be expressed on the surface of the cell as a membrane-spanning glycoprotein or secreted into circumstance. M-CSF was identified as an 84-kDa homodimeric glycoprotein found in healthy human urine, and is present in the peripheral blood and urine. M-CSF serum levels were elevated in pre-transplant haemodialysis patients, so it might be a specific marker of Kidney Allograft Rejection.

References

1. J W Pollard, et al. (1987). *Nature*. 330(6147): 484-486.
2. B R Witt, et al. (1997). *Fertil Steril*. 68(2): 259-264.
3. Anna Popova, et al. (2010). *Immunobiology*. 216(1-2):164-172.
4. K Motoyoshi, et al. (1998). *Int J Hematol*. 67(2):109-122.
5. K Motoyoshi, et al. (1978). *Blood*. 52(5): 1012-1020.
6. Yannick Le Meur, et al. (2004). *Nephrol Dial Transplant*. 19(7):1862-1865.

Synonyms

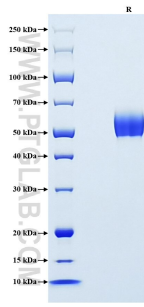
Csf1 , CSF-1 , mcsf

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

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Selected Validation Data



Purity of Recombinant Rat M-CSF was determined by SDS-PAGE. The protein was resolved in an SDS-PAGE in reducing (R) conditions and stained using Coomassie blue.