

For Research Use Only

Recombinant Mouse GM-CSF protein (His Tag)



Catalog Number: Eg0512

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE

Tag:
His Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ μ g protein, LAL method

Source:

HEK293-derived Mouse GM-CSF protein Ala18-Lys141 (Accession# P01587) with a His tag at the N-terminus.

GeneID:

12981

Accession:

P01587

Predicted Molecular Mass:

14.9 kDa

SDS-PAGE:

17-20 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

GM-CSF, also known as Csf2, is a monomeric glycoprotein secreted by macrophages, T cells, mast cells, NK cells, endothelial cells and fibroblasts that functions as a cytokine. GM-CSF was first characterized as a hematopoietic growth factor that stimulates the proliferation of myeloid cells from bone-marrow progenitors. GM-CSF is now recognized as an important activating and differentiation factor for immune cells, and is essential for a wide range of biological processes in both innate and adaptive immunity. GM-CSF has been shown to protect against pulmonary infection and intestinal inflammation, and it is necessary for normal pulmonary and colon homeostasis.

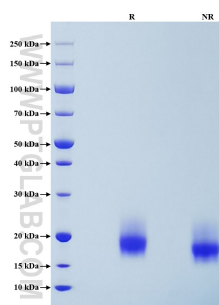
References

1. Burgess AW. et al. (1977). J Biol Chem. 252:1998-2003.
2. Gasson JC. et al. (1984). Science. 94:12557-61.
3. Van Nieuwenhuijze A. et al. Mol Immunol. (2013). 56:675-82.
4. Trapnell BC. et al. (2002). Annu Rev Physiol. 64:775-802.
5. LeVine AM. et al.(1999). J Clin Inves.103:563-9.

Synonyms

Csf2, GM-CSF, Colony Stimulating Factor 2, CSF 2, Csfgm

Selected Validation Data



Purity of Recombinant Mouse GM-CSF 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

T: 027-87531629

E: Proteintech-CN@ptglab.com

W: ptgcn.com

This product is exclusively available under Proteintech Group brand and is not available to purchase from any other manufacturer.