

Recombinant Rat GM-CSF protein (rFc Tag)

Catalog Number: Eg3202

Basic Information

Species:
Rat**Purity:**
>90 %, SDS-PAGE**Tag:**
N-rFc

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ µg protein, LAL method

Source:

HEK293-derived Rat GM-CSF protein Ala18-Lys144 (Accession# P48750) with a rabbit IgG Fc tag at the N-terminus.

GeneID:

116630

Accession:

P48750

Predicted Molecular Mass:

41.7 kDa

SDS-PAGE:

42-50 kDa, reducing (R) condition

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

GM-CSF (also known as CSF2) is a member of the CSF family of hematopoietic growth factors and was originally identified as a stimulus that induces the differentiation of bone marrow precursor cells into granulocytes and macrophages. GM-CSF is secreted as monomeric glycoprotein. Multiple cellular sources of GM-CSF have been described, including epithelial cells, endothelial cells, fibroblasts, stromal cells, and hematopoietic cells. GM-CSF not only stimulates granulocyte proliferation and differentiation but also promotes vasculogenesis via chemotactic macrophages and neutrophil generation. GM-CSF has a wide range of biological activities in innate and adaptive immunity, and it plays a key role in many autoimmune and inflammatory diseases.

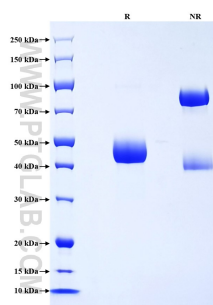
References

1. Becher B. et al. (2016) Immunity. 45(5):963-973.
2. Ingelfinger F. et al. (2021) Semin Immunol. 54:101518.
3. Chen Y. et al. (2023) Front Immunol. 14:1158859.
4. Wei W. et al. (2023) Mol Hum Reprod. 30(1):gaad042.

Synonyms

Colony-stimulating factor, CSF, Csf2, Csfgm, Granulocyte-macrophage colony-stimulating factor

Selected Validation Data



Purity of Recombinant Rat 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

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