

For Research Use Only

Recombinant Mouse Oncostatin M protein (rFc Tag)



Catalog Number: Eg2921

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE

Tag:
rFc Tag

Technical Specifications

Purity:

>90 %, SDS-PAGE

Endotoxin Level:

<0.1 EU/ μ g protein, LAL method

Source:

HEK293-derived Mouse Oncostatin M protein Asn25-Arg206 (Accession# P53347) with a rabbit IgG Fc tag at the C-terminus.

GeneID:

18413

Accession:

P53347

Predicted Molecular Mass:

46.1 kDa

SDS-PAGE:

50-65 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

Oncostatin M (OSM) is a multifunctional cytokine that belongs to the interleukin-6 (IL-6) family. It is primarily secreted by activated T lymphocytes and macrophages as a 28 kDa glycoprotein. OSM shares properties with all members of this cytokine family, but is most closely related in structure and function to leukemia inhibitory factor (LIF). OSM acts on a variety of cells and is involved in regulating gene activation, cell growth, and inflammatory processes. It is a potent inducer of anti-proteases, has anti-inflammatory properties, acts as an immune modifier, and promotes the deposition of extracellular matrix proteins. In the context of respiratory diseases, OSM may play a significant role in normal wound healing, as well as in remodeling and pathological fibrosis.

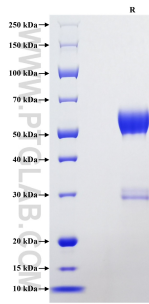
References

1. Tanaka, M, and A Miyajima. Reviews of physiology, biochemistry and pharmacology vol. 149 (2003): 39-52.
2. Tran, T A et al. Modern pathology: an official journal of the United States and Canadian Academy of Pathology, Inc
3. Tiffen, Paul G et al. Molecular endocrinology (Baltimore, Md.) vol. 22,12 (2008): 2677-88.
4. Baker, Brandi J et al. Glia vol. 56,11 (2008): 1250-62.
5. West, Nathaniel R et al. Scandinavian journal of immunology vol. 88,3 (2018): e12694.
6. Huguier, Vincent et al. Scientific reports vol. 9,1 (2019): 2113.

Synonyms

Oncostatin-M, OSM

Selected Validation Data



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

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

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