

For Research Use Only

Recombinant Mouse Oncostatin M/OSM protein (mFc Tag)(HPLC verified)



Catalog Number: Eg4087

Basic Information

Species:
Mouse

Purity:
>90 %, SDS-PAGE
 >90%, SEC-HPLC

Tag:
mFc Tag

Technical Specifications

Purity:
>90 %, SDS-PAGE
 >90%, SEC-HPLC

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

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

GeneID:
18413

Accession:
P53347

Predicted Molecular Mass:
47.2 kDa

SDS-PAGE:
50-65 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

Osm (Oncostatin M) is structurally and functionally related to a family of cytokines that includes the leukemia inhibitory factor (LIF), ciliary neurotrophic factor (CNTF), interleukin-11 (IL-11), cardiotrophin-1 (CT-1), and interleukin-6 (IL-6). Osm is produced primarily by various inflammatory cells, including neutrophils, eosinophils and macrophages, and plays an important role in the modulation of inflammatory responses. Treatment of mice with OSM induced the shift of cytokine production profiles from inflammatory to anti-inflammatory in the adipose tissue with the phenotypic change of ATMs from M1 type to M2 type.

References

1. Yoshimura A, et al. (1996). EMBO J. 15(5):1055-1063.
2. Lindberg, R. A, et al. (1998). Mol Cell Biol. vol. 18,6: 3357-67.
3. Komori T, et al. (2015). Diabetologia, 58(8), 1868-1876.

Synonyms

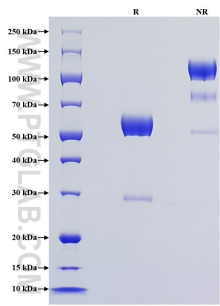
Oncostatin M, Oncostatin-M, OSM

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

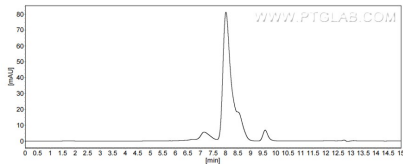
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Selected Validation Data



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



The purity of Mouse Oncostatin M/OSM was greater than 90% as determined by SEC-HPLC.