

Recombinant Human Oncostatin-M/OSM Protein

Catalog No.: RP00054

Recombinant

1 Publications

Sequence Information

Species	Gene ID	Swiss Prot
Human	5008	P13725

Tags

No tag

Synonyms

OSM; oncostatin-M

Product Information

Source	Purification
<i>E. coli</i>	≥ 95% as determined by reducing SDS-PAGE.

Calculated MW	Observed MW
22.15 kDa	20-25 kDa

Endotoxin

< 0.01 EU/μg of the protein by LAL method

Formulation

Lyophilized from a 0.22 μm filtered solution of 20mM Tris, 150mM NaCl, 5% glycerol, pH 7.4. Contact us for customized product form or formulation.

Reconstitution

Centrifuge the vial before opening. Reconstitute to a concentration of 0.1-0.5 mg/mL in sterile distilled water. Avoid vortex or vigorously pipetting the protein. For long term storage, it is recommended to add a carrier protein or stabilizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

Contact

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Background

This protein is a member of the leukemia inhibitory factor/oncostatin-M (LIF/OSM) family. The preproprotein is proteolytically processed to generate the mature protein. This protein is a secreted cytokine and growth regulator that inhibits the proliferation of a number of tumor cell lines. This protein also regulates the production of other cytokines, including interleukin 6, granulocyte-colony stimulating factor and granulocyte-macrophage colony stimulating factor in endothelial cells.

Basic Information

Description

Recombinant Human Oncostatin-M/OSM Protein is produced by *E. coli* expression system. The target protein is expressed with sequence (Ala26-Arg221) of human Oncostatin-M/OSM (Accession #NP_065391.1).

Bio-Activity

Measured in a cell proliferation assay using TF-1 human erythroleukemic cells. The ED₅₀ for this effect is typically 0.8-3.2 ng/mL, corresponding to a specific activity of 3.12×10⁵-1.25×10⁶ units/mg.

Shipping

The product is shipped at ambient temperature. Upon receipt, store it immediately at the temperature recommended below.

Storage

Store at -20°C. Store the lyophilized protein at -20°C to -80 °C up to 1 year from the date of receipt.

After reconstitution, the protein solution is stable at -20°C for 3 months, at 2-8°C for up to 1 week.

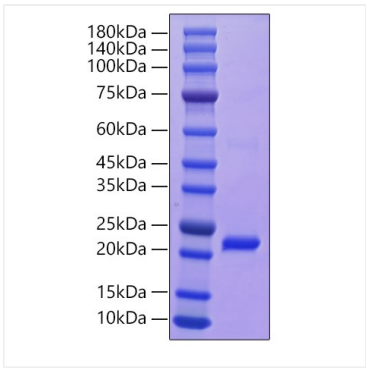
Avoid repeated freeze/thaw cycles.

Operational Notes

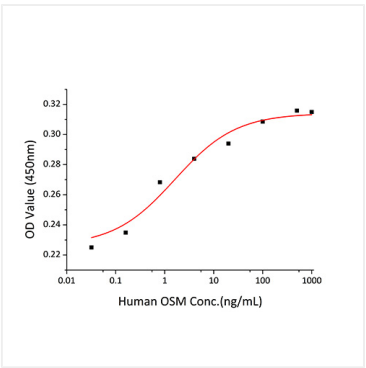
For your safety and health, please wear a lab coat and disposable gloves for handling.



Validation Data



Recombinant Human Oncostatin-M/OSM Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.



Recombinant Human OSM promotes the proliferation of TF-1 human erythroleukemic cells. The ED₅₀ for this effect is typically 0.8-3.2 ng/mL, corresponding to a specific activity of 3.12×10⁵-1.25×10⁶units/mg.