

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

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 3.12×10⁵-1.25×10⁶units/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.

Product Information

Source **Purification**
E. coli ≥ 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.

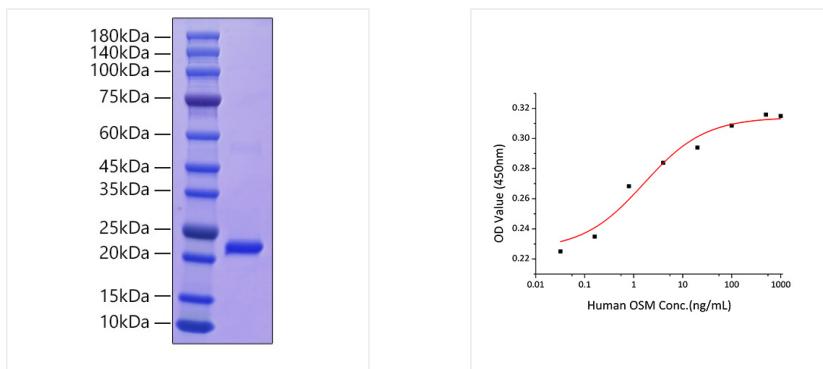
Reconstitution
 Centrifuge the vial before opening.
 Reconstitute to a concentration of
 0.1-0.5 mg/mL in sterile distilled water.
 Avoid vortex or vigorously pipetting the
 protein. For long term storage, it is
 recommended to add a carrier protein or
 stabilizer (e.g. 0.1% BSA, 5% HSA, 10%
 FBS or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

Contact

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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 3.12×10^5 - 1.25×10^6 units/mg.