# Recombinant Human Oncostatin-M/OSM Protein

**Catalog No.: RP00054**



## Sequence Information

**Species**
Human

**Gene ID**
5008

**Swiss Prot**
P13725

**Tags**
No tag

**Synonyms**
OSM, oncostatin-M

## Product Information

**Source**
*E. coli*

**Purification**
≥ 95% as determined by reducing SDS-PAGE.

**Calculated MW**
22.15 kDa

**Observed MW**
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 stablizer (e.g. 0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose), and aliquot the reconstituted protein solution to minimize free-thaw cycles.

## 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).

**Activity**
1.At concentrations ranging from 0.01 to 5 ng/mL, M5 factor (RP03505 IL1A, RP00212 IL17A,RP01616 IL22,RP00993 TNFα,RP00054 OSM)promotes the proliferation of HaCaT cells.2.Measured in a cell proliferation assay using TF-1 Human erythroleukemic cells. The $ED_{50}$ for this effect is 0.76-3.04 ng/mL, corresponding to a specific activity of $3.9\times10^5$~$1.31\times10^6$ units/mg.

**Shipping**
Lyophilized proteins are shipped at ambient temperature.
Liquid proteins are shipped at frozen temperature with dry ice.
Upon receipt, store it immediately at the temperature recommended below.

**Storage**
Store at -20℃

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

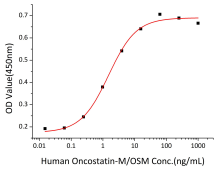
**Contact**

400-999-6126
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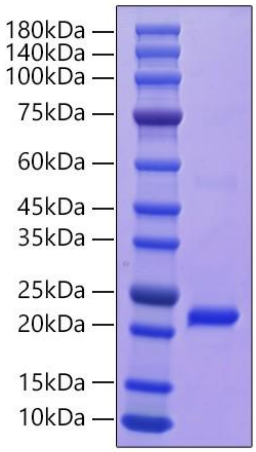


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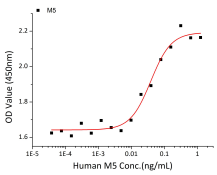
## Validation Data




Measured in a cell proliferation assay using TF-1 Human erythroleukemic cells. The $ED_{50}$ for this effect is 0.76-3.04 ng/mL, corresponding to a specific activity of $3.9\times10^5$ ~$1.31\times10^6$ units/mg.




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




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