

**Catalog No.: RP01844** **Recombinant**

Species	Gene ID	Swiss Prot
Rat	289747	O65Z15

C-His

Oncostatin-M: OSM

Oncostatin M is also known as OSM, is a glycoprotein belonging to the interleukin-6 family of cytokines that has functions mainly in cell growth. Of these cytokines it most closely resembles leukemia inhibitory factor (LIF) in both structure and function. However, it is as yet poorly defined and is proving important in liver development, haematopoiesis, inflammation and possibly CNS development. It is also associated with bone formation and destruction. OSM signals through cell surface receptors that contain the protein gp130. The type I receptor is composed of gp130 and LIFR, the type II receptor is composed of gp130 and OSMR. Oncostatin M (OSM) was previously identified by its ability to inhibit the growth of cells from melanoma and other solid tumors. It also has been reported that OSM, like LIF, IL-6 and G-CSF, has the ability to inhibit the proliferation of murine M1 myeloid leukemic cells and can induce their differentiation into macrophage-like cells.

<b>Source</b>	<b>Purification</b>
HEK293 cells	≥ 95% as determined by SDS-PAGE.

Calculated MW	Observed MW
21.57 kDa	30-36 kDa

< 0.1 EU/μg of the protein by LAL method.

Lyophilized from a 0.22  $\mu\text{m}$  filtered solution of PBS, pH 7.4.

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.

Recombinant Rat Oncostatin-M/OSM Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Lys26-Arg208) of Rat Oncostatin-M/OSM (Accession #NP\_001006962.1) fused with a His tag at the C-terminus.

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.

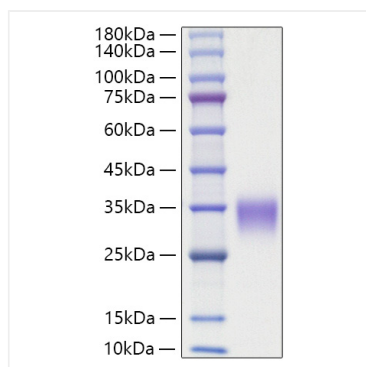
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## Validation Data

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