

Recombinant Rat Oncostatin-M/OSM Protein

Catalog No.: RP01844

Sequence Information

Species **Gene ID**
Rat 289747

Swiss Prot **Tags**
Q65Z15 C-His

Synonyms
Oncostatin-M, OSM

Product Information

Source **Purification**
HEK293 cells ≥ 95% as
 determined by
 SDS-PAGE.

Calculated MW **Observed MW**
21.57 kDa 25–35 kDa

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

Formulation
Lyophilized from a 0.22 μm filtered
solution of PBS, pH 7.4.

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.

Background

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.

Basic Information

Description

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.

Activity

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°C

Operational Notes

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

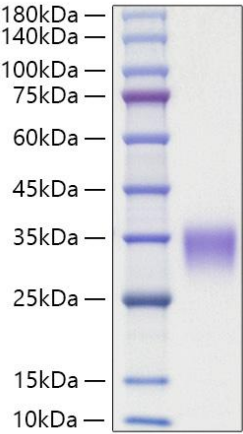
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Validation Data



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