

Recombinant Rat Oncostatin-M/OSM Protein

Catalog No.: RP01844 **Recombinant**

Sequence Information

Species	Gene ID	Swiss Prot
Rat	289747	Q65Z15

Tags

C-His

Synonyms

Oncostatin-M; OSM

Product Information

Source	Purification
HEK293 cells	

Calculated MW	Observed MW
21.57 kDa	30-36 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.

Contact

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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.

Bio-Activity

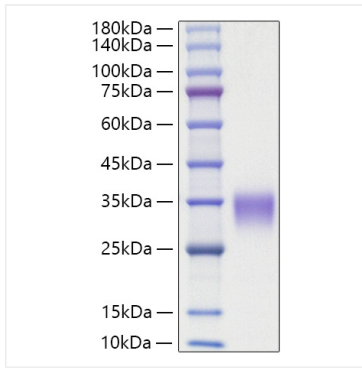
Storage

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.

Validation Data



Recombinant Rat Oncostatin-M/OSM Protein was determined by SDS-PAGE with Coomassie Blue, showing a band at 30-36kDa.