

OSM
Catalog # PVGS1361**Specification**

OSM - Product InformationPrimary Accession [Q65Z15](#)**Species**

Rat

Sequence

MKRGCSSSSP KLLSQLKSQA NITGNTASLL EPYILHQNLN TLTLRAACTE HPVAFPSDEM LRQLSKPDFL
STVHATLGRV WHQLGAFRQQ FPKIQDFPEL ERARQNIQGI RNNVYCMARL LHPPLEIPEP TQADSGTSRP
TTTAPGIFQI KIDSCRFLWG YHRFMGSVGR VFEWGDGSR RSRRHSPLWA WLKGDHRIRP SRSSQSAML
SLVPR

Purity

> 95% as analyzed by SDS-PAGE and HPLC.

Endotoxin Level

< 0.2 EU/ µg, determined by LAL method.

Formulation**Lyophilized after extensive dialysis against PBS.****Reconstitution**Reconstituted in ddH₂O or PBS at 100 µg/ml.**OSM - Additional Information****Gene ID** 289747**Other Names**

Oncostatin-M, OSM, Osm

Target Background

Oncostatin M (OSM) is a multifunctional cytokine, and belongs to Interleukin-6 (IL-6) subfamily, which also includes IL-11, leukemia inhibitory factor (LIF), ciliary neurotropic factor, cardiotrophin-1, and novel neurotrophin-1. *In vivo*, OSM is secreted from activated T cells, monocytes, neutrophils, and endothelial cells. OSM is related to LIF, and shares a receptor with LIF in human. Human OSM can bind to gp130 and recruit OSM Receptor β or LIF Receptor β to form a ternary complex. OSM stimulates the growth of different types of cells, including megakaryocytes, fibroblasts, vascular endothelial cells, and T cells. OSM inhibits the proliferation of several cancer cell lines, such as solid tissue tumor cells, lung cancer cells, melanoma cells, and breast cancer cells. **Recombinant Rat Oncostatin M (rrOSM)** produced in *E. coli* is a single non-glycosylated polypeptide chain containing 215 amino acids. A fully biologically active molecule, rrOSM has a molecular mass of 24.5 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques at .

OSM - Protein Information

Name Osm**Function**

Growth regulator. Inhibits the proliferation of a number of tumor cell lines. It regulates cytokine production, including IL-6, G-CSF and GM-CSF from endothelial cells (By similarity). Uses only type II OSM receptor (heterodimers composed of OSMR and IL6ST). Involved in the maturation of fetal hepatocytes, thereby promoting liver development and regeneration.

Cellular Location

Secreted.

Tissue Location

Widely expressed. Expressed at higher levels in liver, skin and spleen.

OSM - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

OSM - Images