

## Rat Oncostatin-M

<b>Alternate names:</b>	OSM, Oncostatin M, Oncostatin-M
<b>Catalog No.:</b>	AR20004PU-S
<b>Quantity:</b>	2 µg
<b>Background:</b>	Oncostatin M (OSM) is a growth and differentiation factor that participates in the regulation of neurogenesis, osteogenesis and hematopoiesis. Produced by activated T cells, monocytes and Kaposi's sarcoma cells, OSM can exert both stimulatory and inhibitory effects on cell proliferation. It stimulates the proliferation of fibroblasts, smooth muscle cells and Kaposi's sarcoma cells, but, inhibits the growth of some normal and tumor cell lines. It also promotes cytokine release (e.g. IL-6, GM-CSF and G-CSF) from endothelial cells, and enhances the expression of low-density lipoprotein receptor in hepatoma cells. OSM share several structural and functional characteristics with LIF, IL-6, and CNTF. Human OSM is active on murine cells.
<b>Uniprot ID:</b>	<a href="#">Q65Z15</a>
<b>NCBI:</b>	<a href="#">NP_001006962</a>
<b>GeneID:</b>	<a href="#">289747</a>
<b>Species:</b>	Rat
<b>Source:</b>	E. coli
<b>Format:</b>	<b>State:</b> Lyophilized (0.2 µm Sterile filtered) purified protein with no additives. <b>Purity:</b> >98% pure by SDS-PAGE and HPLC analyses. <b>Endotoxin Level:</b> < 0.1 ng/µg of Oncostatin M (< 1EU/µg). <b>Reconstitution:</b> Restore in water to a concentration of 0.1-1.0 mg/ml. This solution can then be diluted into other aqueous buffers and stored at 2-8°C for 1 week or -20°C for future use.
<b>Description:</b>	Recombinant Rat Oncostatin M is a 24.4 kDa protein, containing 215 amino acid residues <b>AA Sequence:</b> MKRGCSSSSP KLLSQLKSQA NITGNTASLL EPYILHQNLN TLTLRACTE HPVAFPSEDM LRQLSKPDFL STVHATLGRV WHQLGAFRQQ FPKIQDFPEL ERARQNIQGI RNNVYCMARL LHPPLEIPEP TQADSGTSRP TTTAPGIFQI KIDSCRFLWG YHRFMGSVGR VFEWGDGSR RSRRHSPWA WLKGDHRIRP SRSSQSAMLR SLVPR <b>Biological Activity:</b> Determined by its ability to stimulate the proliferation of Rat C6 cells. The expected ED50 is 3.0-5.0 µg/ml. <b>Molecular weight:</b> 24.4 kDa (215 aa)
<b>Add. Information:</b>	Centrifuge the vial prior to opening!
<b>Storage:</b>	Store the lyophilized protein at -20°C. Reconstituted Oncostatin-M should be stored in working aliquots at -20°C. Avoid repeated freezing and thawing. Shelf life: one year from despatch.