

## Active Recombinant Mouse Osm Protein (182 aa)

**Cat. No.** Osm-3200    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Oncostatin M (rmOSM) produced in E. coli is a single non-glycosylated polypeptide chain containing 182 amino acids. A fully biologically active molecule, rmOSM has a molecular mass of 20.5 kDa analyzed by reducing SDS-PAGE and is obtained by proprietary chromatographic techniques.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>ProteinLength</b>	182
<b>Description</b>	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 $\beta$ or LIF Receptor $\beta$ 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.
<b>Form</b>	Sterile Filtered White lyophilized (freeze-dried) powder.
<b>Bio-activity</b>	ED50 < 10 ng/mL, measured by a cell proliferation assay using Rat Embryo Brain

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

cells, corresponding to a specific activity of  $> 1 \times 10^5$  units/mg.

<b>Molecular Mass</b>	20.5 kDa, observed by reducing SDS-PAGE.
<b>AA Sequence</b>	MNRGCSNSSSQLLSQLQNQANLTGNTEALLEPYIRLQNLNTPDLRAACTQHSAFP SEDTLRQLSKPHFLSTVYTTLDRLVLYQLDALRQKFLKTPAFPKLDSARHNILGIRNNV FCMARLLNHSLEIPEPTQTDSGASRSTTTPDVFNTKIGSCGFLWGYHRFMGSVGRV FREWDDGSTRSR
<b>Endotoxin</b>	< 0.2 EU/μg, determined by LAL method.
<b>Purity</b>	> 95% as analyzed by SDS-PAGE and HPLC.
<b>Storage</b>	Lyophilized recombinant Mouse Oncostatin M (rmOSM) remains stable up to 6 months at -80 centigrade from date of receipt. Upon reconstitution, rmOSM remains stable up to 2 weeks at 4 centigrade or up to 3 months at -20 centigrade.
<b>Storage Buffer</b>	Lyophilized after extensive dialysis against PBS.
<b>Reconstitution</b>	Reconstituted in ddH <sub>2</sub> O or PBS at 100 μg/mL.

## GENE INFORMATION

<b>Gene Name</b>	Osm oncostatin M [ <i>Mus musculus</i> ]
<b>Official Symbol</b>	Osm
<b>Synonyms</b>	OSM; oncostatin M; oncostatin-M; OncoM;
<b>Gene ID</b>	18413

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mRNA Refseq [NM\\_001013365](#)

Protein Refseq [NP\\_001013383](#)

UniProt ID [P53347](#)

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