

**Recombinant Rat Oncostatin M**  
**Catalog # PBG10343****Specification**

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**Recombinant Rat Oncostatin M - Product Information****Recombinant Rat Oncostatin M - Additional Information****Description**

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. Recombinant rat Oncostatin M is a 24.4 kDa protein, containing 215 amino acid residues.

**Biological Activity**

**Assay #1:** Determined by its ability to stimulate the proliferation of rat C6 cells. The expected **ED<sub>50</sub>** is 3.0-5.0 µg/ml.  
**Assay #2:** Determined by its ability to inhibit Alkaline phosphatase activity of differentiated MC3T3 E1 cells.

**Authenticity**

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

**Endotoxin**

Endotoxin level is <0.1 ng/ µg of protein (<1EU/ µg).

**Protein Content**

Verified by UV Spectroscopy and/or SDS-PAGE gel.

**Storage**

-20°C

**Precautions**

Recombinant Rat Oncostatin M is for research use only and not for use in diagnostic or therapeutic procedures.

**Recombinant Rat Oncostatin M - 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](#)

**Recombinant Rat Oncostatin M - Images**