



## Oncostatin-M, rat recombinant (rrOSM)

**Catalog No:** 97590  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**Synonyms:** Oncostatin-M, OSM, OncoM

### Background

Oncostatin M is a member of a cytokine family that includes leukemia-inhibitory factor, granulocyte colony-stimulating factor, and interleukin 6. This gene encodes a growth regulator which 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.

### Description

OSM rat recombinant produced in *E. coli* is a single, non-glycosylated polypeptide chain containing 214 amino acids and having a molecular mass of 24.3 kDa. OSM is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

### Formulation

The OSM protein was lyophilized from a 0.2 µm filtered concentrated solution in 1xPBS, pH 7.4.

### Solubility

It is recommended to reconstitute the lyophilized Oncostatin M in sterile 18 MΩ-cm H<sub>2</sub>O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

### Stability

Lyophilized Oncostatin M, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution Oncostatin should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Purity

Greater than 95.0% as determined by (a) Analysis by RP-HPLC, (b) Analysis by SDS-PAGE.

### Amino Acid Sequence

KRGCSSSSPK LLSQLKSQAN ITGNTASLLE PYILHQNLNT LTLRAACTEH PVAFPSEDML RQLSKPDFLS TVHATLGRVW  
HQLGAFRQQF PKIQDFPELE RARQNIQGIR NNVYCMARLL HPPLEIPEPT QADSGTSRPT TTAPGIFQIK IDSCRFLWGY  
HRFMGSGVRV FEEWGDGSRR SRRHSPLWAW LKGDHRIRPS RSSQSAMLRS LVPR

### Activity

The ED<sub>50</sub> as determined by the dose-dependent stimulation of the proliferation of rat C6 cells is <5.0 µg/ml, corresponding to a specific activity of >200 units/mg.

### Usage

**This product is offered by Biomol for research purposes only. Not for diagnostic purposes or human use. It may not be resold or used to manufacture commercial products without written approval of Biomol GmbH.**

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