



## Oncostatin M, human recombinant (rHuOSM)

**Catalog No:** 51571  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**Synonyms:** OSM, MGC20461

### 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 human recombinant produced in *E. coli* is a single, non-glycosylated polypeptide chain containing 227 amino acids and having a molecular mass of 26 kDa. OSM is purified by proprietary chromatographic techniques.

### Physical Appearance

Sterile filtered white lyophilized (freeze-dried) powder.

### Formulation

Lyophilized from a concentrated (1 mg/ml) solution containing PBS 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

AAIGSCSKEY RVLGQLQKQ TDLMQDTSRL LDPYIRIQGL DVPKLEHCR ERPGAFPSEE TLRGLGRRGF LQTLNATLGC  
VLHRLADLEQ RLPKAQDLER SGLNIEDLEK LQMARPNILG LRNNIYCMAQ LLDNSDTAEP TKAGRGASQP PTPTPASDAF  
QRKLEGCRFL HGYHRFMHSV GRVFSKWGES PNRSRHSPH QALRKGVRRT RPSRKGKRLM TRGQLPR

### Activity

The ED<sub>50</sub> as determined by the dose-dependant stimulation of Human TF-1 cells is <2 ng/ml, corresponding to a specific activity of 500,000 IU/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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