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## Product Data Sheet

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Product Name: OSM Human, 195 a.a  
 Cat. No.: GP20803  
 Batch No.: 1

### Product Data

|                     |   |                    |                       |
|---------------------|---|--------------------|-----------------------|
| Purity              | >98%  | Source             | Escherichia Coli.     |
| Physical Appearance | solid   | Shipping Condition | Shipped at Room temp. |
| Synonyms            | OSM; MGC20461; Oncostatin M.  |                    |                       |
| Amino Acid Sequence | AAIGSCSKEY RVLLGQLQKQ TDLMQDTSRL LDPYIRIQGL DVPKLREHCR<br>ERPGAFPSEE TLRGLGRRGF LQTLNATLGC VLHRLADLEQ RLPKAQDLER<br>SGLNIEDLEK LQMARNILG LRNNIYCMAQ LLDNSDTAEP TKAGRGASQP<br>PTPTPASDAF QRKLEGCRFL HGYHRFMHSV GRVFSKWGES PNRSR. |                    |                       |
| Solubility          | It is recommended to reconstitute the lyophilized Oncostatin M in sterile 18MΩ-cm H <sub>2</sub> O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.  |                    |                       |
| Formulation         | Lyophilized from a concentrated (1mg/ml) solution containing 1xPBS pH-7.4.  |                    |                       |

### Introduction

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.

### Biological Activity

The ED<sub>50</sub> as determined by the dose-dependent stimulation of the proliferation of human TF-1 cells is < 0.2ng/ml, corresponding to a specific activity of > 5.0x10<sup>6</sup> units/mg.

### 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

**Caution: Product has not been fully validated for medical applications. For research use only.**

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between 2-7 days and for future use below  $-18^{\circ}\text{C}$ . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Background

Oncostatin-M Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 195 amino acids and having a molecular mass of 22kDa. The OSM is purified by proprietary chromatographic techniques.

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