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## Product Data Sheet

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Product Name: OSM Human  
 Cat. No.: GP20801  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	OSM; MGC20461.		
Amino Acid Sequence	AAIGSCSKEY RVLLGQLQKQ TDLMQDTSRL LDPYIRIQGL DVPKLREHCRERPGAFPSEE TLRGLGRRGF LQTLNATLGC VLHRLADLEQ RLPKAQDLERSGLNIEDLEK LQMARPNI LG LRNNIYCMAQ LLDNSDTAEP TKAGRGASQPPTPTPASDAF QRKLEGCRFL HGYHRFMHSV GRVFSKWGES PNRSRRHSPHQALRKGVRRT RPSRKGKRLM TRGQLPR.		
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 PBS 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-dependant stimulation of Human TF-1 cells is < 2 ng/ml, corresponding to a Specific Activity of 500,000IU/mg.

### Stability

Lyophilized Oncostatin M although stable at room temperature for 3 weeks, should be

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

Tel: (909) 407-4943 Fax: (626) 353-8530 E-mail: tech@glpbio.com

Address: 10292 Central Ave. #205, Montclair, CA, USA

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stored desiccated below  $-18^{\circ}\text{C}$ . Upon reconstitution Oncostatin should be stored at  $4^{\circ}\text{C}$  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 227 amino acids and having a molecular mass of 26kDa. The OSM is purified by proprietary chromatographic techniques.

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