
Product Data Sheet

Product Name: OSM Rat
 Cat. No.: GP20806
 Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	Oncostatin-M; OSM; OncoM.		
Amino Acid Sequence	KRGCSSSSPK LLSQLKSQAN ITGNTASLLE PYILHQNLNT LTLRAACTEH PVAFPSEDML RQLSKPDFLS TVHATLGRVW HQLGAFRQQF PKIQDFPELE RARQNIQGIR NNVYCMARLL HPPLEIPEPT QADSGTSRPT TTAPGIFQIK IDSCRFLWGY HRFMGSVGRV FEEWGDGSRR SR RHSPLWAW LKGDHRIRPS RSSQSAMLRS LVPR.		
Solubility	It is recommended to reconstitute the lyophilized Oncostatin M in sterile 18MΩ-cm H ₂ O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	OSM protein was lyophilized from a 0.2μm filtered concentrated solution in 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 ED₅₀ 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.

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°C . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

Background

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

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