



Oncostatin-M, mouse recombinant (rmOSM)

Catalog No: 97589
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 mouse recombinant produced in *E. coli* is a single, non-glycosylated polypeptide chain containing 181 amino acids and having a molecular mass of 20.4 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 H₂O 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

NRGCSNSSSQ LLSQLQNQAN LTGNTESLLE PYIRLQNLNT PDLRAACTQH SVAFPSEDTL RQLSKPHFLS TVYTTLDRVL
YQLDALRQKF LKTPAFPCLKD SARHNILGIR NNVFCMARLL NHSLEIPEPT QTDSGASRST TTPDVFNTKI GSCGFLWGYH
RFMGSVGRVF REWDDGSTRS R

Activity

The ED₅₀ as determined by the dose-dependent stimulation of the proliferation of NIH-3T3 mouse embryonic fibroblast cells is <1 ng/ml, corresponding to a specific activity of >1.0 × 10⁶ units/mg.

Usage

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