

PRODUCT DATA SHEET



Bioworld Technology, Inc.

Recombinant OSM, Mouse(HEK 293-expressed)

Catalog Number: BK0326-1mg

Source: HEK 293

Quantity: 1mg

Description:

Oncostatin-M, also known as OSM, is a growth regulator belonging to the interleukin-6 group of cytokines. It is expressed mainly by monocytes, activated T cells and Kaposi's sarcoma cells. OSM signals through two types of receptors; one is composed of gp130 and LIFR, and the other is composed of gp130 and OSMR. OSM regulates IL-6, G-CSF and GM-CSF production, and thus is involved in hematopoiesis, neurogenesis and osteogenesis. OSM displays both stimulatory and inhibitory effects, so its categorization as pro-inflammatory or anti-inflammatory cytokine is still controversial.

Molecular Weight:

10-40 kDa, observed by reducing SDS-PAGE.

Purity:

> 95% as analyzed by SDS-PAGE and HPLC.

Biological Activity:

ED50 < 0.4 ng/ml, measured in a cell proliferation assay using NIH-3T3 cells.

Physical Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Formulation:

Lyophilized after extensive dialysis against PBS.

AA Sequence:

ANRGCSNSSSQLLSQLQNQANLTGN-
TESLLEPYIRLQNLNTPDLRAACTQHSVAFPS
EDT
LRQLSKPHFLSTVYT-
TLDRVLYQLDALRQKFLKTPAFP
KLD SARHNIL-
GIRNNVFCMARLLNHSLEIPEP-
TQTDSGASRSTTPDVFN
TKIGSCGFLWGY-
HRFMGSVGRVFREWDDGSTRSRR

Endotoxin:

< 0.2 EU/μg, determined by LAL method.

Reconstitution:

Reconstituted in ddH₂O or PBS at 100 μg/ml.

Storage:

Lyophilized recombinant Murine Oncostatin-M remains stable up to 6 months at -80 °C from date of receipt. Upon reconstitution, Murine Oncostatin-M should be stable up to 1 week at 4 °C or up to 2 months at -20 °C.

Usage:

This material is offered by USA Bioworld biotech for research, laboratory or further evaluation purposes. For research use only.