

## OSM, Mouse(HEK 293-expressed)

**Cat. No.:** Z03167-50

**Size:** 50.0 ug

**Synonyms:** OSM

**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.

**Amino Acid Sequence:**

```
00001 ANRGCSNSSS QLLSQLQQA NLGNTESLL EPYIRLQNLN
00041 TPDLRAACTQ HSVAFPS EDT LRQLSKPHFL STVYTTLDRV
00081 LYQLDALRQK FLKTPAFP KL DSARHNILGI RNNVFCMARL
00121 LNHSLEIPEP TQTD SGASRS TTPDVFNTK IGSCGFLWGY
00161 HRFMGVGRV FREWDDGSTR SRR
```

**Source:** HEK 293

**Species:** Mouse

**Biological Activity:** ED<sub>50</sub> < 0.4 ng/ml, measured in a cell proliferation assay using NIH-3T3 cells.

**Molecular Weight:** 10-40 kDa, observed by reducing SDS-PAGE.

**Formulation:** Lyophilized after extensive dialysis against PBS.

**Reconstitution:** Reconstituted in ddH<sub>2</sub>O or PBS at 100 µg/ml.

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

**Endotoxin Level:** < 0.2 EU/µg, determined by LAL method.

**Storage:** Lyophilized recombinant Murine Oncostatin-M remains stable up to 6 months at lower than -70°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.