

## 32-20322: Recombinant Human Oncostatin M (227 a.a.)(Discontinued)

**Reactivity :** Dog, Human, Monkey, Mouse, Pig, Rat

**Alternative Name :** OSM

### Description

**Source:**E.coli

Oncostatin M (OSM) is a growth and differentiation factor that participates in the regulation of neurogenesis, osteogenesis and hematopoiesis. Produced by activated T cells, monocytes and Kaposi's sarcoma cells, OSM can exert both stimulatory and inhibitory effects on cell proliferation. It stimulates the proliferation of fibroblasts, smooth muscle cells and Kaposi's sarcoma cells, but inhibits the growth of some normal and tumor cell lines. It also promotes cytokine release (e.g. IL-6, GM-CSF and G-CSF) from endothelial cells, and enhances the expression of low-density lipoprotein receptors in hepatoma cells. OSM shares several structural and functional characteristics with LIF, IL-6, and CNTF. Human OSM is active on murine cells. Recombinant Human Oncostatin M is a 25.7 kDa protein, containing 227 amino acid residues (full length precursor).

### Product Info

**Amount :** 2 µg / 10 µg

**Purification :** Purity: >= 98% by SDS-PAGE gel and HPLC analyses.

**Content :** This recombinant protein is supplied in lyophilized form.

**Amino Acid :** AAIGSCSKEY RVLLGQLQKQ TDLMQDTSRL LDPYIRIQL DVPKLREHCR ERPGAFPSEE TLRGLGRRGF  
LQTLNATLGC VLHRLADLEQ RLPKAQDLER SGLNIEDLEK LQMARPNILG LRNNIYCMAQ LLDNSDTAEP  
TKAGRGASQP PTPTPASDAF QRKLEGCRFL HGYHRFMHSV GRVFSKWGES PNRSRRHSPH  
QALRKGVRRT RPSRKGKRLM TRGQLPR

### Application Note

The ED<sub>50</sub> as determined by the dose-dependent stimulation of the proliferation of human TF-1 cells is <=2 ng/ml, corresponding to a specific activity of >= 5 x 10<sup>5</sup>units/mg.