

**TECHNICAL DATA SHEET**

**Recombinant Human Oncostatin M (227 a.a.) (Carrier-Free)**

Catalog Number: 21-9144

**RPx-Pro™ Recombinant Protein**  
**PRODUCT INFORMATION**

**CONTENTS**

Recombinant Human Oncostatin M (227 a.a.) (Carrier-Free)

**DESCRIPTION**

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. Human OSM is active on Mouse cells.

**MOLECULAR MASS**

Recombinant Human Oncostatin M is a 25.7 kDa protein, containing 227 amino acid residues (full length precursor).

**AMINO ACID SEQUENCE**

AAIGSCSKEY RVLLGQLQKQ TDLMQDTSRL LDPYIRIQGL DVPKLRHCR ERPGAFPSEE TLRGLGRRGF LQTLNATLGC VLHRLADLEQ RLPKAQDLER  
 SGLNIEDLEK LQMARPNI LG LRNNIYCMAQ LLDNSDTAEP TKAGRGASQP PTPTPASDAF QRKLEGCRFL HGYHRFMHSV GRVFSKWGES  
 PNRSRRHSPH QALRKGVRRT RPSRKGKRLM TRGQLPR

**SOURCE**

E. coli

**APPLICATIONS**

Bioassay

**PURITY**

98 %

**STORAGE**

-20°C

**PROTEIN CONTENT**

Content Verified by UV Spectroscopy and/or SDS-PAGE gel.

**ENDOTOXIN LEVEL**

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

**AUTHENTICITY**

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

**CROSS REACTIVITY**

Dog, Human, Monkey, Mouse, Pig, Rat

**BIOACTIVITY**

The ED50 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 105 units/mg.

**RESEARCH AREAS**

AIDS/HIV, Immune System, Inflammation, Stem Cells & Differentiation, Angiogenesis/Cardiovascular, Bone, Skeletal, Cartilage

**RECONSTITUTION**

See Certificate of Analysis (COA) for lot specific reconstitution information.

**REFERENCES**

Olivier, C. Identification of a gp130 Cytokine Receptor Critical Site Involved in Oncostatin M Response. 2000. The Journal of Biological Chemistry; 275(8) 5648-5656. Richardson, R.T. A somatic cell genetic system for dissecting hemopoietic cytokine signal transduction. 2002. The Journal of Biological Chemistry; 277(28):25624-25630.

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