

TECHNICAL DATA SHEET

Recombinant Human Oncostatin M (196 a.a.) (Carrier-free)

Catalog Number: 21-9229

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

CONTENTS

Recombinant Human Oncostatin M (196 a.a.) (Carrier-free)

DESCRIPTION

Oncostatin M (OSM) is a member of a cytokine family that includes leukemia-inhibitory factor, granulocyte colony-stimulating factor, and interleukin 6. It is a growth and differentiation factor that participates in the regulation of neurogenesis, osteogenesis, and hematopoiesis. OSM can have both stimulatory and inhibitory effects on cell proliferation, depending on the cell type and it also promotes cytokine release from endothelial cells. Recombinant Human Oncostatin M (196 a.a.) is a HEK293 cell-derived, 196 amino-acid length glycoprotein that has a calculated molecular weight of 22.2 kDa, but migrates at an apparent molecular weight of 32-34 kDa by SDS-PAGE analysis under reducing conditions due to glycosylation.

MOLECULAR MASS

22.2 kDa

AMINO ACID SEQUENCE

AAIGSCSKEY RVLLGQLQKQ TDLMQDTSRL LDPYIRIQGL DVPKLRHCR ERPGAFPSEE TLRGLGRRGF LQTLNATLGC VLHRLADLEQ RLPKAQDLER SGLNIEDLEK LQMARPNILG LRNNIYCMAQ LLDNSDTAEP TKAGRGASQP PTPPASDAF QRKLEGCRFL HGYHRFMHSV GRVFSKWGES PNRSR

SOURCE

HEK293

APPLICATIONS

Bioassay

PURITY

95 %

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 (<1 EU/µg).

AUTHENTICITY

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

CROSS REACTIVITY

N/A

BIOACTIVITY

Determined by its ability to stimulate the proliferation of human TF-1 cells. The expected ED50 is ≤ 2.0 ng/ml, corresponding to a specific activity of ≥ 5 x 10⁵ units/mg.

RESEARCH AREAS

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

RECONSTITUTION

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

REFERENCES

Citations are provided as a resource for additional applications that have not been validated by Tonbo Biosciences. Please choose the appropriate format for each application and consult Materials and Methods sections for additional details about the use of any product in these publications.

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