

TECHNICAL DATA SHEET

Recombinant Human Oncostatin-M (Carrier-free)

Catalog Number: 21-7079

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human Oncostatin-M (Carrier-free)

DESCRIPTION

Oncostatin M (OSM) is a growth and differentiation factor produced by activated T cells, monocytes and Kaposi's sarcoma cells. It shares many biological functions with LIF, and belongs to a cytokine family that includes G-CSF, IL-6 and LIF. OSM can promote cytokine production, including IL-6, G-CSF, GM-CSF, in endothelial cells, but may also act as an inhibitor of growth for some normal and tumor cell lines.

MOLECULAR MASS

Recombinant human Oncostatin M is a 23.6 kDa protein, containing 209 amino acid residues.

AMINO ACID SEQUENCE

AAIGSCSKE YRVLLGQLQK QTDLMQDTSR LLDPYIRIQG LDVPKLREHC RERPGAFPSE ETLRGLGRRG FLQTLNATLG CVLHRLADLE
 QRLPKAQDLE RSGLNIEDLE KLQMARPNIL GLRNNIYCMA QLLDNSDTAE PTKAGRGASQ PPTPTPASDA FQRKLEGCRF
 LHGYHRFMHS VGRVFSKWGE SPNRSRRHSP HQALRKGVRR

SOURCE

E. coli

APPLICATIONS

Bioassay

PURITY

98 %

STORAGE

-20°C

PROTEIN CONTENT

Content Verified by UV Spectroscopy and/or SDS-PAGE

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

BIOACTIVITY

The ED₅₀ as determined by the dose-dependent stimulation of the proliferation of human TF-1 cells 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; Stem Cells & Differentiation

RECONSTITUTION

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

REFERENCES

Tanaka M and Miyajima A. 2003. Rev Physiol Biochem Pharmacol. 149: 39-52. Rose TM and Bruce AG. 1991. Proc Natl Acad Sci USA. 88(19): 8641-8645. Zarling JM, Shoyab M, Marguardt H, Hanson MB, Lioubin MN and Todaro GJ. 1986. Proc Natl Acad Sci USA. 83(24): 9739-9743. Bruce AG, Linsley PS and Rose TM. 1992. Prog Growth Factor Res. 4(2): 157-170.

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