

**TECHNICAL DATA SHEET**

**Recombinant Human SPARC (Carrier-Free)**

Catalog Number: 21-9084

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

**CONTENTS**

Recombinant Human SPARC (Carrier-Free)

**DESCRIPTION**

SPARC/Osteonectin is a secreted, evolutionarily-conserved, collagen-binding glycoprotein that is involved in a variety of cellular activities. It is highly expressed in tissues undergoing morphogenesis, remodeling and wound repair.

**MOLECULAR MASS**

Recombinant Human SPARC/Osteonectin is a glycoprotein containing 286 amino acids that migrates at an apparent MW of 43.7 kDa by SDS-PAGE analysis due to the effect of glycosylation. The calculated molecular weight of Recombinant Human SPARC/Osteonectin is 32.7 kDa.

**AMINO ACID SEQUENCE**

APQQEALPDE TEVVEETVAE VTEVSVGANP VQVEVGEFDD GAEETEEVV AENPCQNHHC KHGKVCDELDE NNTPMCVCQD PTSCPAPIGE  
 FEKVCSNDNK TFDSSCHFPA TKCTLEGTKK GHKLHLDYIG PCKYIPPCLD SELTEFPLRM RDWLKNVLVT LYERDEDNNL LTEKQKLRVK KIHENEKRLR  
 AGDHPVELLA RDFEKNYNYM IFPVHWQFGQ LDQHPIDGYL SHTELAPLRA PLIPMEHCTT RFFETCDLND DKYIALDEWA GCFGIKQKDI DKDLVI

**SOURCE**

CHO cells

**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**

Mouse, Rat

**BIOACTIVITY**

Determined by its ability to increase alkaline phosphatase activity in differentiating MC3T3 cells using a concentration of 0.5-0.7 µg/ml.

**RESEARCH AREAS**

Proliferation, Wound Healing, Angiogenesis/Cardiovascular, Bones, Skeletal, Cartilage, Cancer

**RECONSTITUTION**

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

**REFERENCES**

Nakamura, K. Age-related resistance of skeletal muscle-derived progenitor cells to SPARC may explain a shift from myogenesis to adipogenesis. 2012. Aging; 4(1):40-8.

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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