

TECHNICAL DATA SHEET

Recombinant Human Vitronectin (Carrier-Free)

Catalog Number: 21-9098

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

CONTENTS

Recombinant Human Vitronectin (Carrier-Free)

DESCRIPTION

Vitronectin is a secreted glycoprotein that is synthesized in the liver. It circulates primarily in monomeric form, but can undergo conformational change to a structure that forms disulfide-linked multimers. The multimeric vitronectin can efficiently bind to, and incorporate into, the extracellular matrix.

MOLECULAR MASS

Recombinant Human Vitronectin is a 459 amino acid, single-chain, monomeric protein, which migrates at an apparent molecular weight of 75 kDa by SDS-PAGE under reducing conditions. The calculated molecular weight of Recombinant Human Vitronectin is 52.2 kDa.

AMINO ACID SEQUENCE

DQESCKGRCT EGFNVDKCCQ CDELCSYYQS CCTDYTAECK PQVTRGDVFT MPEDEYTVYD DGEKNNATV HEQVGGPSLT SDLQAQSKGN PEQTPVLKPE EEAPAPEVGA SKPEGIDSRP ETLHPGRPQP PAEEELCSGK PFDaftDLKN GSLFAFRGQY CYELDEKAVR PGYPKLIRDV WGIEGPIDAA FTRINCQGKT YLFKGSQYWR FEDGVLDPDY PRNISDGF DG IPDNVDAALA LPAHSYSGRE RYVFFKGKQY WEYQFQHQP S QEECEGSSLS AVFEHFAMMQ RDSWEDIFEL LFWGRTSAGT RQPQFISR DW HGVPQVDAA MAGRIYISGM APRPSLAKKQ RFRHRNRKGY RSQRGHSRGR NQNSRRPSRA TWLSLFSSEE SNLGANNYDD YRMDWLVPAT CEPIQSVFFF SGDKYYRVNL RTRRVDTVDP PYPRSIQYW LGCPAPGHL

SOURCE

HEK293 cells

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 (<1EU/μg).

AUTHENTICITY

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

CROSS REACTIVITY

Human

BIOACTIVITY

Recombinant human Vitronectin promotes attachment of hESC and iPSC in serum-free, feeder conditions at 5ug/ml.

RESEARCH AREAS

Stem Cells & Differentiation

RECONSTITUTION

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

REFERENCES

Wang, J.L. Direct adhesion of endothelial cells to bioinspired poly(dopamine) coating through endogenous fibronectin and integrin α5 β1. 2017. Macromolecular Bioscience. Takino, J. Ras guanyl nucleotide releasing protein 2 affects cell viability and cell-matrix adhesion in ECV304 endothelial cells. 2017. Cell Adhesion & Migration.

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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