

## Vitronectin Human HEK293 cells

### Product Data Sheet

**Type:** Recombinant  
**Source:** HEK293 cells  
**Species:** Human

**Cat. No.:**  
RBG103480100 (100 µg)  
RBG103480500 (500 µg)  
RBG103481000 (1mg)

### Description

Recombinant Human Vitronectin, expressed in HEK293 cells. Calculated molecular weight of 52.2 kDa.

### Introduction to the Molecule

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. Within the matrix, vitronectin can support cell adhesion through binding to various integrins and other proteoglycans. Additionally, recombinant vitronectin can function as a chemically-defined matrix component in human embryonic stem cell renewal media. 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 EGFNVDKKCQ CDELCSYYQS CCTDYTAECK PQVTRGDVFT MPEDEYTVYD DGEEKNNATV  
HEQVGGPSLT SDLQAQSKGN PEQTPVLKPE EEAPAPEVGA SKPEGIDSRP ETLHPGRPQP PAEEELCSGK  
PFDAFTDLKN GSLFAFRGQY CYELDEKAVR PGYPKLIRDV WGIEGPIDAA FTRINCQGKT YLFKGSQYWR  
FEDGVLDPDY PRNISDGFDFG IPDNVDAALA LPAHSYSGRE RVYFFKQY WEYQFQHQPS QEECEGSSLS  
AVFEHFAMMQ RDSWEDIFEL LFWGRTSAGT RQPQFISRDW HGVPGQVDAA MAGRIYISGM APRPSLAKKQ  
RFRHRNRKGY RSQRGHSRGR NQNSRRPSRA TWLSLFSSEE SNLGANNYDD YRMDWLVDPAT CEPIQSVFFF  
SGDKYYRVNLT RTRRVDTVDP PYPRSIQYW LGCPAPGHL

### Source

HEK293 cells

### Purity

≥ 95%

### Biological Activity

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

### Endotoxin

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

### Reconstitution

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex after reconstitution. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

### Storage, Stability/Shelf Life

Store lyophilized protein at -20°C to -80°C. Lyophilized protein remains stable until the expiry date when stored at -20°C to -80°C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at 2°C to 8°C for up to one week, or -20°C to -80°C for extended storage up to 3 months.

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