Vitronectin Protein, Human (HEK293, His)

Cat. No.:	HY-P70485
Synonyms:	Vitronectin; VN; S-Protein; Serum-Spreading Factor; V75; VTN
Species:	Human
Source:	HEK293
Accession:	P04004/AAH05046.1 (D20-L478)
Gene ID:	7448
Molecular Weight:	approximately 60-80 kDa due to the glycosylation

PROPERTIES

AA Sequence

D Q E S C K G R C T E G F N V D K K C Q C D E L C S Y Y Q S C C T D Y T A E C K
P Q V T R G D V F T M P E D E Y T V Y D D G E E K N N A T V H E Q V G G P S L T
S D L Q A Q S K G N P E Q T P V L K P E E E A P A P E V G A S K P E G I D S R P
E T L H P G R P Q P P A E E E L C S G K P F D A F T D L K N G S L F A F R G Q Y
C Y E L D E K A V R P G Y P K L I R D V W G I E G P I D A A F T R I N C Q G K T
Y L F K G S Q Y W R F E D G V L D P D Y P R N I S D G F D G I P D N V D A A L A
L P A H S Y S G R E R V Y F F K G K Q Y W E Y Q F Q H Q P S Q E E C E G S S L S
A V F E H F A M M Q R D S W E D I F E L L F W G R T S A G T R Q P Q F I S R D W
H G V P G Q V D A A M A G R I Y I S G M A P R P S L A K K Q R F R H R N R K G Y
R S Q R G H S R G R N Q N S R R P S R A T W L S L F S S E E S N L G A N N Y D D
Y R M D W L V P A T C E P I Q S V F F F S G D K Y Y R V N L R T R R V D T V D P
P Y P R S I A Q Y W L G C P A P G H L

Biological Activity	1.Immobilized Human Vitronectin, His Tag at 5 μg/mL (100 μl/well) on the plate. Dose response curve for Biotinylated Mouse ITGAV&ITGB3, His Tag with the EC_{50} of ≤1.72 μg/mL determined by ELISA. 2.Measured by the ability of the immobilized protein to support the adhesion of B16□F1 mouse melanoma cells. When $5x10^4$ cells/well are added to Vitronectin coated plates (5 μg/mL with 100 μL/well), approximately is 78.525% will adhere after 30 minutes at 37 °C.
Appearance	Lyophilized powder
Formulation	Lyophilized from a 0.2 μm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, pH 8.0 or PBS, pH 7.4.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.

Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Vitronectin Protein is a multifunctional cell adhesion and spreading factor present in serum and tissues. It interacts with glycosaminoglycans and proteoglycans and acts as a cell-to-substrate adhesion molecule, binding to specific integrins. Additionally, Vitronectin Protein functions as an inhibitor of the terminal cytolytic complement pathway, protecting cell membranes from damage. It also possesses protease-inhibiting activity and is involved in regulating growth hormone-dependent processes, specifically somatomedin-B.

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