

GMP Vitronectin Protein, Human (HEK293, His)

Cat. No.:	HY-P70485G
Synonyms:	Vitronectin; VN; S-Protein; Serum-Spreading Factor; V75; VTN
Species:	Human
Source:	HEK293
Accession:	AAH05046.1 (D20-L478)
Gene ID:	7448
Molecular Weight:	60-80 kDa

PROPERTIES

AA Sequence	<p> 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 </p>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 µm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, pH 8.0.
Endotoxin Level	<0.1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. 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, a pivotal cell adhesion and spreading factor present in both serum and tissues, plays a crucial role in cellular interactions. It engages with glycosaminoglycans and proteoglycans, demonstrating its versatility in molecular interactions. Recognized by specific integrins, Vitronectin serves as a vital cell-to-substrate adhesion molecule, facilitating cellular adhesion processes. Additionally, it acts as an inhibitor, mitigating the membrane-damaging effects associated with the terminal cytolytic complement pathway. Notably, Vitronectin establishes connections with various molecules, including SERPINE1/PAI1, insulin, and C1QBP, showcasing its involvement in diverse cellular processes.

Caution: Product has not been fully validated for medical applications. For research use only.

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