
Product Data Sheet

Product Name: VTN Human, Sf9
 Cat. No.: GP25009
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Insect cells.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	VN; S-protein; Serum-spreading factor; V75; VTN.		
Amino Acid Sequence	ADPDQESCKG RCTEGFNVDK KCQCDELCSY YQSCCTDYTA ECKPQVTRGD VFTMPEDYTYVYDDGEEKNN ATVHEQVGGP SLTSDLQAQS KGNPEQTPVL KPEEEAPAPE VGASKPEGIDSRPETLHPGR QPPAEEELC SGKPFDAFTD LKNGSLFAFR GQYCYELDEK AVRPGYPKLIRDVWGIEGPI DAAFTRINCQ GKTYLFGKSQ YWRFEDGVLD PDYPRNISDG FDGIPDNVDAALALPAHSYS GRERVYFFKG KQYWEYQFQH QPSQEECEGS SLSAVFEHFA MMQRDSWEDIFELLFWGRS AGTRQPQFIS RDWHGVPGQV DAAMAGRIYI SGMAPRPSLA KKQRFRRNRKGYRSQRGHS RGRNQNSRRP SRATWLSLFS SEESNLGANN YDDYRMDWLIV PATCEPIQSVFFFSGDKYYR VNLRTRRVDT VDPYPRSIA QYWLGCAPAG HLHHHHHH.		
Formulation	VTN protein solution (0.25mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.		

Introduction

Vitronectin (VTN) which is a part of the pexin family is a cell adhesion and spreading factor found in serum and tissues. VTN interacts with glycosaminoglycans and proteoglycans. VTN inhibits the membrane-damaging effect of the terminal cytolytic complement pathway and binds to numerous serpin serine protease inhibitors. Scientists have been noticed an over expression of VTN, integrins and plasminogen in migrating cells during wound healing.

Biological Activity

Measured by the ability of the immobilized protein to support the adhesion of B16-F10 mouse melanoma cells. The ED50 is 5ug/ml when cells are added to VTN coated plates.

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

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Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

VTN produced in Sf9 Insect cells is a single, glycosylated polypeptide chain containing 468 amino acids (20-478a.a.) and having a molecular mass of 53.3kDa (Molecular size on SDS-PAGE will appear at approximately 50-70kDa). VTN is expressed with an 9 amino acid His tag at C-Terminus and purified by proprietary chromatographic techniques.

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