

32-13507: VTN Human, Sf9

Application : Functional Assay

Alternative Name : VN, S-protein, Serum-spreading factor, V75, VTN.

Description

Source: Sf9, Insect cells.

Sterile Filtered colorless solution.

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.

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.

Product Info

Amount : 20 µg / 100 µg

Purification : Greater than 90.0% as determined by SDS-PAGE.

Content : VTN protein solution (0.25mg/ml) contains Phosphate Buffered Saline (pH 7.4) and 10% glycerol.

Storage condition : 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.

Amino Acid : ADPDQESCKG RCTEGFNVDK KCQCDELCSY YQSCCTDYTA ECKPQVTRGD
VFTMPEDYTVYDDGEEKNN ATVHEQVGGP SLTSDLQAQS KGNPEQTPVL KPEEEAPAPE
VGASKPEGIDSRPETLHPGR PQPPAEEELC SGKPFDAFTD LKNGSLFAFR GQYCYELDEK
AVRPGYPKLIRDVWGIEGPI DAAFRINCQ GKTYLFKGSQ YWRFEDGVLD PDYPRNISDG
FDGIPDNVDAALALPAHSYS GRERVYFFKG KQYWEYQFQH QPSQEECEGS SLSAVFEHFA
MMQRDSWEDIFELLFWGRTS AGTRQPQFIS RDWHGVPGQV DAAMAGRIYI SGMAPRPSLA
KKQRFRRNRKGYRSQRGHS RGRNQNSRRP SRATWLSLFS SEESNLGANN YDDYRMDWL
PATCEPIQSVFFSGDKYYR VNLRTTRVDT VDPYPRSIA QYWLGCAPG HLHHHHHH.

Application Note

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.