

Recombinant human Vitronectin protein

Catalog Number: ATGP3849

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

20-478aa

UniProt No.

P04004

NCBI Accession No.

NP_000629.3

Alternative Names

VTN, VN, S-protein, Serum-spreading factor, V75, Vitronectin V65 subunit, Vitronectin V10 subunit, Somatomedin-B, Somatomedin B, Complement S-protein

PRODUCT SPECIFICATION

Molecular Weight

53.3 kDa (468aa)

Concentration

0.25mg/ml (determined by Bradford assay)

Formulation

Liquid in. Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

< 0.1 EU per 1ug of protein (determined by LAL method)

Biological Activity

Measured by the ability of the immobilized protein to support the adhesion of B16-F10 mouse melanoma cells. When cells are added to VTN coated plates 5ug/ml. This effect is more to 50%.

Tag

His-Tag

Application

SDS-PAGE, Bioactivity

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

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BACKGROUND

Description

Vitronectin, also known VTN, is a member of the pexin family. It is a cell adhesion and spreading factor found in serum and tissues. This protein interacts with glycosaminoglycans and proteoglycans and is recognized by certain members of the integrin family and serves as a cell-to-substrate adhesion molecule. It also contains endogenous cleavage sites such as elastase, thrombin and plasmin. This protein binds multiple ligands, including the soluble vitronectin receptor which affects multi-function. Therefore, it is involved in hemostasis, cell migration, as well as tumor malignancy. Recombinant human Vitronectin protein, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

<ADP>DQESCKG RCTEGFNVDK KCQCDELCSY YQSCCTDYTA ECKPQVTRGD VFTMPED EYT VYDDGEEKNN
ATVHEQVGGP SLTSDLQAQS KGNPEQTPVL KPEEEAPAPE VGASKPEGID SRPETLHPGR PQPPAEEELC SGKPFDAFTD
LKNGLFAFR GQYCYELDEK AVRPGYPKLI RDVWGIEGPI DAAFTRINCQ GKTYLFKGSQ YWRFEDGVLD PDYPRNIDG
FDGIPDNVDA ALALPAHSYS GRERVYFFKG KQYWEYQFQH QPSQEECEGS SLSAVFEHFA MMQRDSWEDI FELLFWGRTS
AGTRQPQFIS RDWHGVPGQV DAAMAGRIYI SGMAPRPSLA KKQRFRRHRNR KGYRSQRGHS RGRNQNSRRP SRATWLSLFS
SEESNLGANN YDDYRMDWLV PATCEPIQSV FFFSGDKYYR VNLRTTRVDT VDPYPYRSIA QYWLGCAPAG HL<HHHHHH>

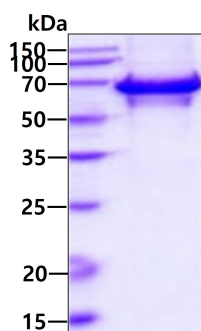
General References

Yang XP., et al, (2016) Cancer Biomark. 17:271-279.

Min SK., et al, (2017) Cell Death Differ. 25:268-281.

DATA

SDS-PAGE



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.