

Active Recombinant Human VTN Protein, Animal Free

Cat. No. VTN-54H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human VTN Protein without tag was expressed in Human cells. Animal Free and Xeno Free
Species	Human
Source	Human Cells
Description	Vitronectin is a secreted glycoprotein detected as a mixture of 75 kilodalton (kDa) and 65 kDa polypeptides in serum and the extracellular matrix. It primarily in monomeric form, but it can also be found as a dimer after endogenous cleavage. Vitronectin can support cell adhesion and spreading through binding to various integrins and other proteoglycans. The cell-binding site of vitronectin involves a common cell-attachment tripeptide Arg-Gly-Asp. Additionally, recombinant vitronectin can function as a chemically-defined matrix component in human embryonic stem cell and induced pluripotent stem cell.
Bio-activity	Recombinant Human Vitronectin promotes attachment of adherent cell in serum free, such as hESC and iPSC. Measured by the ability of the immobilized protein to support the adhesion of HUVEC cells, when 5 x 10 ⁴ cells/well are added to Vitronectin coated plates (5 µg/mL with 100 µL/well), approximately >60% will adhere after 30 minutes at 37 centigrade.
Molecular Mass	~75 kDa homotrimer
Endotoxin	<0.5 EU/

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	µg
Purity	High Purity, >95% by SDS-PAGE
Stability	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. In general: 12 months from date of receipt, -20 to -80 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -80 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 µm filtered solution in PBS without carrier protein
Reconstitution	Briefly centrifuge the vial before opening. It is recommended to reconstitute the protein in sterile PBS containing 0.1% endotoxin-free recombinant human serum albumin.

GENE INFORMATION

Gene Name	VTN vitronectin [Homo sapiens (human)]
Official Symbol	VTN
Synonyms	VTN; vitronectin; vitronectin (serum spreading factor, somatomedin B, complement S protein); complement S protein; serum spreading factor; somatomedin B; VN; epibolin; S-protein; complement S-protein; serum-spreading factor; V75; VNT;
Gene ID	7448
mRNA Refseq	NM_000638
Protein Refseq	NP_000629

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MIM	193190
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UniProt ID	P04004
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