

Active Recombinant Human Vitronectin

Cat. No. VTN-2709H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human Vitronectin is expressed in <i>human cell line</i> .
Species	Human
Source	Human Cells
Description	Vitronectin, also known as VTN, is a member of the pexin family. It is an abundant glycoprotein found in serum the extracellular matrix and promotes cell adhesion and spreading. Vitronectin is a secreted protein and exists in either a single chain form or a cleaved, two chain form held together by a disulfide bond. Vitronectin consists of three domains: the N-terminal Somatomedin B domain, a central domain with hemopexin homology, and a C-terminal domain also with hemopexin homology. The Somatomedin B domain is a close knit disulfide knot and binds to plasminogen activator inhibitor-1 (PAI-1) and stabilizes it. An RGD sequence which is a binding site for membrane bound integrins is also found in Vitronectin. As a component of platelets, Vitronectin serves to regulate proteolysis initiated by plasminogen activation, interacts with the urokinase receptor, and binds to several serpin serine protease inhibitors as well. Accordingly, Vitronectin is suggested to be.
Purification	by affinity chromatography.
Storage Buffer	20 mM Tris, 200 mM NaCl, pH 7.5.
Purity	> 95% (SDS-PAGE). HMS > 800 kDa, reduced dimer at 120 kDa, monomer at 65 kDa.

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Identity	Immuno-Blot with specific polyclonal antiserum .
Activity	tested in a cell attachment and spreading assay.
Contents	250 g / 1mg (lyophilized). Resuspend in aqua bidest for required concentration.
Store At	2-8 °C (lyophilized); - 20 °C (dissolved). Repeated thawing and freezing must be avoided.

GENE INFORMATION

Gene Name	VTN vitronectin [Homo sapiens]
Synonyms	VTN; vitronectin; VN; V75; VNT; epibolin; somatomedin B; complement S-protein; serum spreading factor; vitronectin (serum spreading factor, somatomedin B, complement S-protein); Serum-spreading factor
Gene ID	7448
mRNA Refseq	NM_000638
Protein Refseq	NP_000629
MIM	193190
UniProt ID	P04004
Chromosome Location	17q11
Pathway	ECM-receptor interaction; Focal adhesion

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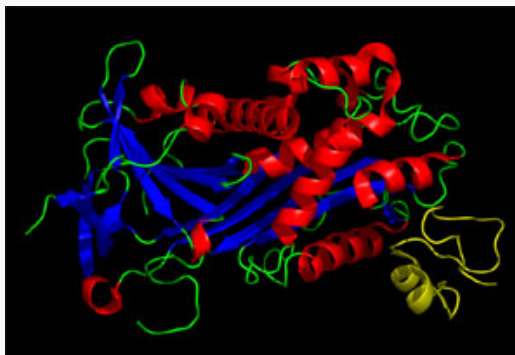
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Function

extracellular matrix binding; heparin binding; polysaccharide binding; protein binding; scavenger receptor activity

**The SMB domain
(yellow) in complex
with PAI-1.**



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