

# Active Recombinant Human Vitronectin

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

## SPECIFICATION

**Product Overview**      Recombinant Human Vitronectin is expressed in *human cell line*.

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

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">VTN vitronectin [ Homo sapiens ]</a>
<b>Synonyms</b>	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
<b>Gene ID</b>	<a href="#">7448</a>
<b>mRNA Refseq</b>	<a href="#">NM_000638</a>
<b>Protein Refseq</b>	<a href="#">NP_000629</a>
<b>MIM</b>	<a href="#">193190</a>
<b>UniProt ID</b>	<a href="#">P04004</a>
<b>Chromosome Location</b>	17q11
<b>Pathway</b>	ECM-receptor interaction; Focal adhesion

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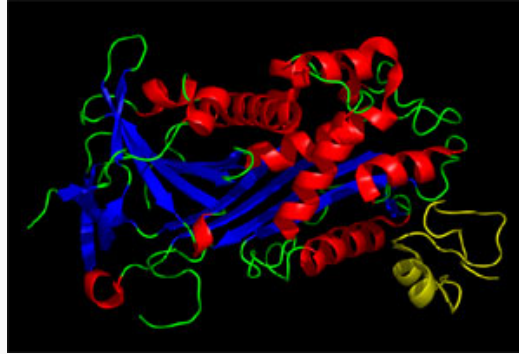
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**Function**

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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