Multimeric Vitronectin (VTN) Porcine Protein

PRODUCT OVERVIEW

Product Name	multimeric vitronectin (VTN), Protein
Full Product Name	Porcine multimeric vitronectin
Product Gene Name	VTN protein
Host	Porcine plasma
Form/Format	Frozen liquid
Purity/Purification	>95% by SDS-PAGE analysis
Concentration	5.0 mg/ml (lot specific)
Preparation and Storage	Store at -70 degree C. Shelf Life: 3 years from delivery
Molecular Weight	75,000 Monomer
Chromosome Location	Chromosome: 18; NC_010460.3 (5022..8400, complement). Location: chromosome: 18
3D Structure	ModBase 3D Structure for P48819
Buffer	0.05M Sodium Phosphate; 0.1M NaCl; pH 7.4
Extinction Coefficient	1.38
Product Categories/Family for VTN protein	Vitronectin; Porcine Vitronectin
Related Product Information for VTN protein	MBS135803 is a protein targeting VTN. Also known as Porcine multimeric vitronectin. Host: Porcine plasma. Prepared from fresh porcine (pig) plasma using urea as a denaturant.
Other Notes	Small volumes of VTN protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for VTN. It may not necessarily be applicable to this product.

NCBI GI #	55741847
NCBI GeneID	397192
NCBI Accession #	NP_999269.1
UniProt Primary Accession #	P48819
UniProt Related Accession #	P48819
GenBank Nucleotide #	NM_214104.1
NCBI Official Full Name	vitronectin
NCBI Official Symbol	VTN
NCBI Official Synonym Symbols	VN
UniProt Protein Name	Vitronectin
UniProt Synonym Protein Names	S-protein; Serum-spreading factor

Protein Family	Vitronectin
UniProt Gene Name	VTN
UniProt Synonym Gene Names	VN
UniProt Entry Name	VTNC_PIG
NCBI Protein Information	vitronectin; S-protein; serum-spreading factor
UniProt Comments for VTN	Function: Vitronectin is a cell adhesion and spreading factor found in serum and tissues. Vitronectin interact with glycosaminoglycans and proteoglycans. Is recognized by certain members of the integrin family and serves as a cell-to-substrate adhesion molecule. Inhibitor of the membrane-damaging effect of the terminal cytolytic complement pathway By similarity. Subunit structure: Monomer. Interacts with SERPINE1/PAI1 and C1QBP By similarity. Subcellular location: Secreted › extracellular space. Tissue specificity: Plasma. Domain: The SMB domain mediates interaction with SERPINE1/PAI1 By similarity. Post-translational modification: Sulfated on 2 tyrosine residues By similarity.N- and O-glycosylated By similarity.It has been suggested that the active SMB domain may be permitted considerable disulfide bond heterogeneity or variability, thus two alternate disulfide patterns based on 3D structures are described with 1 disulfide bond conserved in both. Sequence similarities: Contains 4 hemopexin-like domains.Contains 1 SMB (somatomedin-B) domain.
Research Articles on VTN	**1.** for intact vitronectin the effect of the heparin-binding domain predominates with respect to the signaling events that occur following ligand binding to the alphaVbeta3 integrin
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