Thrombospondin (THBS1) Human Protein

PRODUCT OVERVIEW

Product Name	Thrombospondin (THBS1), Protein
Full Product Name	Human Thrombospondin
Product Gene Name	THBS1 protein
Host	Human plasma
Form/Format	Lyophilized powder
Purity/Purification	>95% by SDS-PAGE analysis
Concentration	1.0 mg/ml (lot specific)
Preparation and Storage	Store at -70 degree C. Shelf Life: 3 years from delivery
Molecular Weight	420,000
Chromosome Location	Chromosome: 15; NC_000015.9 (39873280..39889668). Location: 15q15
OMIM	188060
3D Structure	ModBase 3D Structure for P07996
Buffer	0.02M Tris-HCl; 0.6M NaCl; 0.002M CaCl2; 20% Sucrose; pH 8.0
Extinction Coefficient	0.91
Product Categories/Family for THBS1 protein	Platelet Proteins; Human Platelet Thrombospondin
Related Product Information for THBS1 protein	A cellular adhesion protein. Thrombospondin is a component of the coagulation mechanism and is believed to have potential as a marker for platelet activation and renal failure. Aliquoted in siliconized tubes. Prepared from platelets shown to be non reacti
Other Notes	Small volumes of THBS1 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.
Searchable Terms for THBS1 purchase	MBS135733 is a protein targeting THBS1. Also known as Human Thrombospondin. Host: Human plasma.



Testing Data of THBS1 protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for THBS1. It may not necessarily be applicable to this product.

NCBI GI #	40317626
NCBI GeneID	7057
NCBI Accession #	NP_003237.2
UniProt Primary Accession #	P07996
UniProt Secondary Accession #	Q15667; A8K6H4; B9EGH6
UniProt Related Accession #	P07996
GenBank Nucleotide #	NM_003246.2
NCBI Official Full Name	thrombospondin-1
NCBI Official Synonym Full Names	thrombospondin 1
NCBI Official Symbol	THBS1
NCBI Official Synonym Symbols	TSP; THBS; TSP1; TSP-1; THBS-1
UniProt Protein Name	Thrombospondin-1
Protein Family	Thrombospondin
UniProt Gene Name	THBS1
UniProt Synonym Gene Names	TSP; TSP1
UniProt Entry Name	TSP1_HUMAN
NCBI Protein Information	thrombospondin-1; thrombospondin-1p180
NCBI Summary for THBS1	The protein encoded by this gene is a subunit of a disulfide-linked homotrimeric protein. This protein is an adhesive glycoprotein that mediates cell-to-cell and cell-to-matrix interactions. This protein can bind to fibrinogen, fibronectin, laminin, type V collagen and integrins alpha-V/beta-1. This protein has been shown to play roles in platelet aggregation, angiogenesis, and tumorigenesis. [provided by RefSeq, Jul 2008]

UniProt Comments for THBS1	THBS1: Adhesive glycoprotein that mediates cell-to-cell and cell-to-matrix interactions. Binds heparin. May play a role in dentinogenesis and/or maintenance of dentin and dental pulp. Ligand for CD36 mediating antiangiogenic properties. Belongs to the thrombospondin family. Protein type: Inhibitor; Motility/polarity/chemotaxis Chromosomal Location of Human Ortholog: 15q15 Cellular Component: extracellular matrix; extracellular space; cell surface; sarcoplasmic reticulum; endoplasmic reticulum; endoplasmic reticulum lumen; fibrinogen complex; extracellular region; external side of plasma membrane; secretory granule Molecular Function: heparin binding; identical protein binding; laminin binding; calcium ion binding; integrin binding; protein binding; proteoglycan binding; fibroblast growth factor binding; phosphatidylserine binding; transforming growth factor beta binding; fibronectin binding; low-density lipoprotein binding; glycoprotein binding Biological Process: extracellular matrix organization and biogenesis; activation of MAPK activity; response to magnesium ion; negative regulation of fibrinolysis; response to glucose stimulus; cell adhesion; cell cycle arrest; positive regulation of macrophage activation; response to drug; platelet activation; negative regulation of interleukin-12 production; positive regulation of chemotaxis; positive regulation of blood vessel endothelial cell migration; response to testosterone stimulus; negative regulation of blood vessel endothelial cell migration; negative regulation of cell-matrix adhesion; response to unfolded protein; positive regulation of angiogenesis; response to mechanical stimulus; negative regulation of endothelial cell proliferation; peptide cross-linking; regulation of cGMP metabolic process; response to calcium ion; response to progesterone stimulus; negative regulation of apoptosis; positive regulation of blood coagulation; positive regulation of translation; negative regulation of fibroblast growth factor receptor signaling pathway; negative regulation of antigen processing and presentation of peptide or polysaccharide antigen via MHC class II; negative regulation of caspase activity; behavioral response to pain; platelet degranulation; positive regulation of transforming growth factor-beta1 production; positive regulation of tumor necrosis factor biosynthetic process; protein amino acid O-linked glycosylation; cell migration; chronic inflammatory response; negative regulation of focal adhesion formation; positive regulation of transforming growth factor beta receptor signaling pathway; engulfment of apoptotic cell; post-translational protein modification; positive regulation of protein kinase B signaling cascade; negative regulation of angiogenesis; cellular protein metabolic process; negative regulation of dendritic cell antigen processing and presentation; response to hypoxia; immune response; sprouting angiogenesis; blood coagulation; positive regulation of phosphorylation; positive regulation of cell migration
Research Articles on THBS1	**1.** thrombospondin-1 regulation in hypoxia proved to be important for ccRCC cell migration and invasion.
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