

## THSD1

### Recombinant Human Thrombospondin-1

<b>Catalog No.</b>	CRT141A	<b>Quantity:</b>	2 µg
	CRT141B		10 µg
	CRT141C		0.1 mg

**Alternate Names:** Thrombospondin-1, THBS1, TSP, TSP1, THBS, THBS-1.

**Description:** Thrombospondin-1 (TSP1) is a member of the Thrombospondin family and is encoded by the gene THBS1 which is a subunit of a disulfide-linked homotrimeric protein. Thrombospondin-1 is an adhesive glycoprotein that mediates cell-to-cell and cell-to-matrix interactions. Thrombospondin-1 can bind to fibrinogen, fibronectin, laminin, type V collagen and integrins alpha-V/beta-1. TSP1 has been shown to play roles in platelet aggregation, angiogenesis, and tumorigenesis. TSP1 has been shown to be a natural inhibitor of neovascularization and tumorigenesis in healthy tissue. TSP1 interacts with no less than 12 cell adhesion receptors, including CD36, av integrins, B1 integrins, syndecan, and integrin-associated protein (IAP or CD47). It also interacts with various proteases involved in angiogenesis, including, plasminogen, urokinase, matrix metalloproteinase, thrombin, cathepsin, and elastase. Positive and negative modulation of endothelial cell adhesion, motility, and growth are attributed to TSP1. recently, thrombospondin-1 was found to bind to the reelin receptors, ApoER2 and VLDLR, in so doing affecting neuronal migration in the rostral migratory stream. Recombinant Human THBS1 is glycosylated with N-linked sugars and produced using baculovirus vectors in insect cells. Recombinant Human THBS1 is Reactive with A4.1 anti-TSP mAb.

**Physical Appearance:** Sterile Filtered clear solution

**Source:** Baculovirus vectors in Insect Cells

**Molecular Weight:** 140 kDa

**Formulation:** Sterile filtered liquid in 20 mM Sodium phosphate, pH 6.0 + 300 mM NaCl.

**Purity:** Greater than 90.0% as determined by  
(a) Analysis by RP-HPLC.  
(b) Analysis by SDS-PAGE

**Endotoxin Level:** < 0.1 ng/µg of Human TSP1

**Storage & Stability:** Store at 2-4°C. Add a carrier protein (0.1% HSA or BSA) as a stabilizer for long term storage. **Please note that the addition of any carrier protein into this product may produce unwanted endotoxin. This depends upon the particular application employed.**

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