

# Native Human Thrombospondin

**Cat. No.** THBS1-5524H    **Lot. No.** (See product label)

## SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                             |
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| <b>Product Overview</b> | Native Human Thrombospondin was purified from Human plasma.                                                                                                                                                                                                                                                                                                                                                 |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Source</b>           | Human Plasma                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Description</b>      | 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. |
| <b>Form</b>             | Lyophilized powder                                                                                                                                                                                                                                                                                                                                                                                          |
| <b>Molecular Mass</b>   | 420000                                                                                                                                                                                                                                                                                                                                                                                                      |
| <b>Purity</b>           | ≥95% by SDS-PAGE analysis                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Storage</b>          | -70 C                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Storage Buffer</b>   | 0.02M Tris-HCl; 0.6M NaCl; 0.001M CaCl <sub>2</sub> ; 20% Sucrose; pH 7.8                                                                                                                                                                                                                                                                                                                                   |

## GENE INFORMATION

|                  |                                         |
|------------------|-----------------------------------------|
| <b>Gene Name</b> | THBS1 thrombospondin 1 [ Homo sapiens ] |
|------------------|-----------------------------------------|

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|                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
|----------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Official Symbol</b>     | THBS1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Synonyms</b>            | THBS1; thrombospondin 1; thrombospondin-1; THBS; THBS 1; thrombospondin 1p180; TSP; TSP 1; TSP1; thrombospondin-1p180; TSP-1; THBS-1;                                                                                                                                                                                                                                                                                                                                                  |
| <b>Gene ID</b>             | 7057                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>mRNA Refseq</b>         | NM_003246                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Protein Refseq</b>      | NP_003237                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>MIM</b>                 | 188060                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>UniProt ID</b>          | P07996                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| <b>Chromosome Location</b> | 15q15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Pathway</b>             | Bladder cancer, organism-specific biosystem; Bladder cancer, conserved biosystem; ECM-receptor interaction, organism-specific biosystem; ECM-receptor interaction, conserved biosystem; Focal Adhesion, organism-specific biosystem; Focal adhesion, organism-specific biosystem; Focal adhesion, conserved biosystem;                                                                                                                                                                 |
| <b>Function</b>            | calcium ion binding; collagen V binding; eukaryotic cell surface binding; fibrinogen binding; fibroblast growth factor binding; fibronectin binding; glycoprotein binding; heparin binding; identical protein binding; integrin binding; laminin binding; low-density lipoprotein particle binding; phosphatidylserine binding; protein binding; proteoglycan binding; structural molecule activity; transforming growth factor beta binding; transforming growth factor beta binding; |

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