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THBS1 Human

Thrombospondin-1 Human Recombinant
RCP2370

Product Overview

Name	THBS1 Human
Description	
Thrombospondin-1 Human Recombinant	
Accession (Primary)	P07996
Synonyms	
Thrombospondin-1, THBS1, TSP, TSP1, THBS, THBS-1.	
Introduction	
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, 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.	
Source	
Baculovirus Insect Cells.	
Physical Appearance	
Sterile Filtered clear solution.	
Formulation	
The sterile protein solution contains 20mM Sodium phosphate, pH 6.0 and 300mM NaCl.	
Stability	
Recombinant Human TSP should be stored between 2°C- 8°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).	
Purity	
Greater than 90.0% as determined by SDS-PAGE.	

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References

1. Title :Tasquinimod (ABR-215050), a quinoline-3-carboxamide anti-angiogenic agent, modulates the expression of thrombospondin-1 in human prostate tumors. Publication : Molecular Cancer 2010, 9:107 doi:10.1186/1476-4598-9-107. Link : http://www.molecular-cancer.com/content/9/1/107/ 2. Title :Regulation of Angiogenesis-Related Prostaglandin F2alpha-Induced Genes in the Bovine Corpus Luteum. Publication :Published online before print December 14, 2011, doi: 10.1095/?biolreprod.111.095067 Link : http://www.biolreprod.org/content/early/2011/12/12/biolreprod.111.095067.short

Precautions

THBS1 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P07996)