

Active Recombinant Human THBS1 Protein, His-tagged

Cat. No. THBS1-08H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human THBS1 Protein (Asn19-Pro1170), with Thr523Ala substitution and a C-terminal 10-His tag was expressed in Mouse myeloma cell line.
Species	Human
Source	NS0
ProteinLength	19-1170
Description	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.
Bio-activity	Measured by its binding ability in a functional ELISA. When Recombinant Human VEGF is coated at 1.00 µg/mL (100 µL/well), it binds to Recombinant Human Thrombospondin-1. The ED50 for this binding is 100-600 ng/mL.
Molecular Mass	Predicted Molecular Mass: 129 kDa SDS-PAGE: 135-165 kDa, reducing conditions
N-terminal Sequence Analysis	Asn19

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Endotoxin	<0.10 EU/μg of the protein by the LAL method.
Purity	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Applications	Bioactivity
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
Storage Buffer	Lyophilized from a 0.2 μm filtered solution in TBS, NaCl, and Trehalose.
Reconstitution	Reconstitute at 100 μg/mL in sterile PBS.
Shipping	The product is shipped at ambient temperature.

GENE INFORMATION

Gene Name	THBS1 thrombospondin 1 [Homo sapiens (human)]
Official Symbol	THBS1
Synonyms	THBS1; thrombospondin 1; TSP; THBS; TSP1; TSP-1; THBS-1; thrombospondin-1; glycoprotein G; thrombospondin-1p180; thrombospondin-p50
Gene ID	7057
mRNA Refseq	NM_003246
Protein Refseq	NP_003237

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MIM	188060
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UniProt ID	P07996
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