

Recombinant Human THBS1 Protein, His-tagged

Cat. No. THBS1-355H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human THBS1 fused with His tag at the C-terminus was produced in HEK293.
Species	Human
Source	HEK293
ProteinLength	Asn19-Pro1170
Description	<p>Thrombospondin-1 (TSP-1) is a 150-180kDa calcium-sensitive protein that is secreted as a disulfide-linked homotrimer. TSP-1 regulates a wide range of cellular functions including their interactions with other cells and with the extracellular matrix (ECM). TSP-1 contains an N-terminal Laminin G-like globular domain, an extended central region with one vWFC domain, 3 TSP type 1 domains, 2 EGF-like domains, and 8 TSP type3 domains, and a globular TSP C-terminal domain. Distinct regions of TSP-1 have been associated with binding to particular ECM or cellular molecules. TSP-1 counteracts the angiogenic, hypotensive, and antithrombotic effects of nitric oxide (NO). It binds and neutralizes VEGF, blocks VEGF R2 signaling on vascular endothelial cells(EC), and destabilizes adhesive contacts between EC. TSP-1 also plays an important role in wound repair and tissue fibrosis by binding latent TGF-beta and inducing release of the active cytokine from the latency associated peptide (LAP).</p>
Form	Lyophilized from a 0.2 µm filtered solution of PBS, pH7.4.
AA sequence	NRIPESGGDNSVFDIFELTGAARKGSGRRLVKGPDPSSPAFRIEDANLIPPVPDDKF

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QDLVDAVR AEKGFLLLASLRQMKKTRGTLALERKDHSGQVFSVVSNGKAGTLDLS
 LTVQ GKQHVVSVEEALL ATGQWKSITL FVQEDRAQLYIDCEKMENAELDVPIQSVFT
 RDLASIALRLRIAKGGVNDNFQGV LQ NVRFVFGTTPEDILRNKGCSSSTSVLLTLDNN
 VVNGSSPAIRTN YIGHKTKDLQAICGISCELS SMVLELRGLRTIVTTLQDSIRKVTEE
 NKELANELRRPPLCYHNGVQYRNNEEWTVDSCTECHCQN SVTICKKVSCPIMPSCS
 NATVPDGECCPRCWPSDSADDGWSPWSEWTSCSTSCGNGIQQRGRSCDS LNNR
 CEGSSVQTRTCHIQECDKRFKQDGGWSHWSPWSSCSVT CGDGVITRIRLCNSPSP
 QMNGKP CEGEARETKACKKDACPINGGWGPWSPWDICSVTCGGGVQKRSRLCN
 NPTPQFGGKDCVGDVTEN QICNKQDCPIDGCLSNPCFAGVKCTSYPDGSWKCGA
 CPPGYSGNGIQCTDVDECKEVPDACFNHN GEHRCENTDPGYNCLPCPPRFTGSQ
 PFGQGVEHATANKQVCKPRNPCTDGT HDCNKNACNYLGH YSDPMYRCECKPGY
 AGNGIICGEDTDLDGWPENLV CVANATYHCKKDNCNLPNSGQEDYDKDG IGDA
 CDDDDNDKIPDDRDNCPFHYNPAQYDYDRDDVGDRCDCNCPYNHNPDQADTDNN
 GEGDACA ADIDGDGILNERDNCQYVYNVDQRDTMDGVGDQDCNCPLEHNPDQL
 DSDSDRIGDTCNNDQDID EDGHQNNLDNCPYVPNANQADHDKDGGKGDACDHDDD
 NDGIPDDKDNCR LVPNPQKDSGDGRGD ACKDDFDHDSVPDIDDICPENVDISET
 DFRRFQMIPLDPKGTSQNDPNWVVRHQGKELVQTVNCD PGLAVGYDEFNAVDFS
 GTFFINTERDDDYAGFVFGYQSSSRFYVMWKQVTQSYWDTNPTRAQGY SGLSV
 KVVNSTTGPEHLRNALWHTGNTPGQVRTLWHDPRHIGWKDFTAYRWRLSHRPK
 TGFIRV VMYEGKKIMADSGPIYDKTYAGGRLGLFVFSQEMVFFSDLKYECRDPGGG
 GSHHHHHHHHHH

Endotoxin Less than 0.1 ng/g (1 IEU/g) as determined by LAL test.

Purity Greater than 95% as determined by reducing SDS-PAGE.

Storage Lyophilized protein should be stored at < -20 centigrade, though stable at room temperature for 3 weeks.
 Reconstituted protein solution can be stored at 4-7 centigrade for 2-7 days.
 Aliquots of reconstituted samples are stable at < -20 centigrade for 3 months.

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Reconstitution

Always centrifuge tubes before opening. Do not mix by vortex or pipetting.
 It is not recommended to reconstitute to a concentration less than 100 µg/ml.
 Dissolve the lyophilized protein in ddH₂O.
 Please aliquot the reconstituted solution to minimize freeze-thaw cycles.

Shipping The product is shipped at ambient temperature.

GENE INFORMATION

Gene Name [THBS1 thrombospondin 1 \[Homo sapiens \]](#)

Official Symbol [THBS1](#)

Synonyms THBS1; thrombospondin 1; thrombospondin-1; THBS; THBS 1; thrombospondin 1p180; TSP; TSP 1; TSP1; thrombospondin-1p180; TSP-1; THBS-1;

Gene ID [7057](#)

mRNA Refseq [NM_003246](#)

Protein Refseq [NP_003237](#)

MIM [188060](#)

UniProt ID [P07996](#)

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