

Active Recombinant Human Thrombospondin 4, His-tagged

Cat. No. THBS4-507H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human THBS4 protein was expressed in CHO with a C-terminal 10-His tag. Ala22-Asn961.
Species	Human
Source	CHO
Protein Length	22-961 a.a.
Description	THBS4 is a 140 kDa calcium-binding protein that interacts with other extracellular matrix molecules and modulates the activity of various cell types. TSP1 and 2 constitute subgroup A and form disulfide-linked homotrimers. The human THBS4 cDNA encodes a 961 amino acid precursor that includes a 26 aa signal sequence followed by an N-terminal heparin-binding domain, a coiled-coil motif, four EGF-like repeats, seven TSP type 3 repeats, and a TSP C-terminal domain.
Form	Lyophilized from a 0.2 µm filtered solution in Tris, NaCl and CaCl ₂ .
N-terminal Sequence	Ala22
Molecular Weight	105 kDa
Activity	Measured by the ability of the immobilized protein to support the adhesion of SVEC410 mouse endothelial cells. rh THBS4 is coated to 96 well plates at 10 µg/mL (100 µL/well) overnight then reduced with 20 mM DTT for 30 minutes. When 2

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	x10 ⁴ cells/ well are added to rh THBS4 coated plates, approximately 50-70% will adhere after one hour at 37°C.
Endotoxin Level	<1.0 EU per 1 µg of the protein by the LAL method.
SDS-PAGE	145 kDa, reducing conditions.
Purity	>90%, by SDS-PAGE under reducing conditions and visualized by silver stain.
Reconstitution	100 µg/ mL in sterile PBS
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70°C as supplied. 1 month, 2 to 8 °C under sterile conditions after reconstitution. 3 months, -20 to -70°C under sterile conditions after reconstitution.

GENE INFORMATION

Gene Name	THBS4 thrombospondin 4 [Homosapiens]
Official Symbol	THBS4
Synonyms	THBS4; thrombospondin4; TSP4; thrombospondin-4; OTTHUMP00000135313; OTTHUMP00000222343
Gene ID	7060
mRNA Refseq	NM_003248
Protein Refseq	NP_003239

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MIM	600715
UniProt ID	P35443
Chromosome Location	5q13
Pathway	ECM-receptor interaction; Focal Adhesion;Focal adhesion; Malaria; Phagosome; Phagosome; Signal Transduction; Signalingby PDGF; TGF-beta signaling pathway
Function	calcium ion binding; collagen binding;fibronectin binding; heparin binding; integrin binding; laminin-1 binding;structural molecule activity

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