Active Recombinant Human Thrombospondin 4, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Human THBS4protein was expressed in CHO with a C-terminal 10-His tag. Ala22-Asn961.
Species	Human
Source	CHO
ProteinLength	22-961 a.a.
Description	THBS4 is a 140 kDacalcium-binding protein that interacts with other extracellular matrixmolecules and modulates the activity of various cell types. TSP1 and 2constitute subgroup A and form disulfide-linked homotrimers. The human THBS4cDNA encodes a 961 amino acid precursor that includes a 26 aa signal sequencefollowed by an N-terminal heparin-binding domain, a coiled-coil motif, fourEGF-like repeats, seven TSP type3 repeats, and a TSP C-terminal domain.
Form	Lyophilized from a0.2 μm filtered solution in Tris, NaCl and CaCl2.
N-terminalSequence	Ala22
Molecular Weight	105 kDa
Activity	Measuredby the ability of the immobilized protein to support the adhesion of SVEC410mouse 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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	x104 cells/ well are added to rh THBS4 coated plates, approximately50-70% will adhere after one hour at 37°C.
Endotoxin Level	<1.0 EUper 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/ mLin sterile PBS
Storage	Use amanual defrost freezer and avoid repeated freeze-thaw cycles. 12 months fromdate of receipt, -20 to -70°C as supplied. 1 month, 2 to 8 °C under sterileconditions after reconstitution. 3 months, -20 to -70°C under sterileconditions 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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