Active Recombinant Human THBS2, His-tagged

Cat. No. THBS2-101H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human THBS2 (Gly19Ile1172) fused with a Cterminal and 10His tag, was expressed in Mouse NSO Cells.
Species	Human
Source	Mammalian Cells
ProteinLength	19-1172 aa
Description	The protein encoded by this gene belongs to the thrombospondin family. It is a disulfide-linked homotrimeric glycoprotein that mediates cell-to-cell and cell-to-matrix interactions. This protein has been shown to function as a potent inhibitor of tumor growth and angiogenesis. Studies of the mouse counterpart suggest that this protein may modulate the cell surface properties of mesenchymal cells and be involved in cell adhesion and migration.
Molecular Mass	Predicted molecular mass is 129 kDa. The apparent molecular mass of the protein is approximately 170176 kDa in SDS-PAGE under reducing conditions.
Predicted N terminal	Gly19
Formulation	Lyophilized from a 0.2 μm filtered solution in Sodium Citrate and NaCl.
Purity	>90% as determined by SDSPAGE

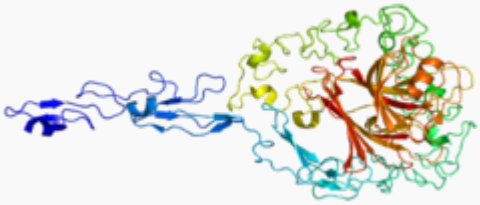
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Activity	Measured by the ability of the immobilized Protein to support the adhesion of SVEC4-10 mouse vascular endothelial cells. rhThrombospondin2 is coated to 96 well plates at 10 g/mL (100 µ/well) overnight then reduced with 20 mM DTT for 30 minutes. When 2 x 104 cells/well are added to rhThrombospondin2 coated plates, approximately 55-75% will adhere after one hour at 37° C.
EndotoxinLevel	<1.0 EU per 1 µg of the protein by the LAL method.
Storage	12 months from date of receipt, 20 to 70 °C as supplied. Avoid repeated freezethaw cycles.
OfficialSymbol	THBS2

GENE INFORMATION

Gene Name	THBS2 thrombospondin 2 [Homo sapiens]
Synonyms	THBS2; thrombospondin 2; thrombospondin-2; TSP2
Gene ID	7058
mRNA Refseq	NM_003247
Protein Refseq	NP_003238
MIM	188061
UniProt ID	P35442
Chromosome Location	6q27

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Pathway	ECM-receptor interaction; Focal Adhesion; Focal adhesion; Malaria
Function	calcium ion binding; heparin binding; protein binding; structural molecule activity
PDB rendering basedon 1yo8.	

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