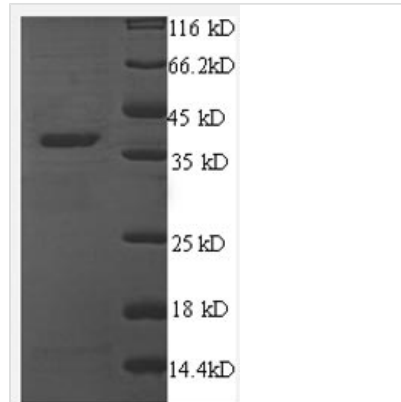




Recombinant Human Thrombospondin-1 (THBS1), partial

Product Code	CSB-RP073494h(N)
Relevance	Adhesive glycoprotein that mediates cell-to-cell and cell-to-matrix interactions. Binds heparin. May play a role in dentinogenesis and/or maintenance of dentin and dental pulp . Ligand for CD36 mediating antiangiogenic properties. Plays a role in ER stress response, via its interaction with the activating transcription factor 6 alpha (ATF6) which produces adaptive ER stress response factors .
Abbreviation	Recombinant Human THBS1 protein, partial
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	P07996
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	NRIPESGGDNSVFDIFELTGAARKGSGRRLVKGPDPSSPAFRIEDANLIPPVPD DKFQDLVDAVRAEKGFLLLASLRQMKKTRGTLALERKDHSGQVFSVVSNGK AGTLDLSLTVQGGKHVVSVEEALLATGQWKSITLFVQEDRAQLYIDCEKMENA ELDVPIQSVFTRDLASIRLRIAKGGVNDNFQGV LQNVR FVFGTTPEDILRNKG CSSSTSVLLTLDNNVNGSSPAIRTN YIGHKTKDLQAICGISCELSMVLRLRG LRTIVTTLQDSIRKVTEENKELANELRRPPLCYHNGVQYRNNEEWTVDSCTEC HCQNS
Research Area	Cell Adhesion
Source	E.coli
Target Names	THBS1
Expression Region	19-344aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged
Mol. Weight	40.6kDa
Protein Length	Partial
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

Description

The production of this Recombinant Human THBS1 protein started with the THBS1 gene synthesis. And then using recombinant DNA technology, the THBS1 gene was inserted into an expression vector so that we could get the recombinant express plasmid of THBS1. Transform the plasmid into the cells of E.coli, culture the cells and we could get the desired Recombinant Human THBS1 protein. But the work was not completed, protein purification and a strict QC system were performed in the last step. The purity is 90%+ determined by SDS-PAGE.

THBS1 (also named TSP or TSP1) is a gene providing an instruction of making a protein named thrombospondin-1 (abbreviated as THBS1) in human. THBS1 protein is also called glycoprotein G and is a subunit of a disulfide-linked homotrimeric protein. This protein is well known as a natural angiogenesis inhibitor and has a potent effect on tumor growth of the ability to inhibit angiogenesis. The anti-angiogenic effect of thrombospondin-1 is mediated by inhibiting vascular endothelial cell adhesion and migration.

Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.