

Human CellExp Thrombomodulin, Human recombinant protein
CD141, BDCA-3, THBD, TM
Catalog # PBV10845r**Specification****Human CellExp Thrombomodulin, Human recombinant protein - Product info**

Primary Accession [P07204](#)
Calculated MW **51.4 kDa** KDa

Human CellExp Thrombomodulin, Human recombinant protein - Additional Info

Gene ID **7056**
Gene Symbol **THBD**

Other Names
CD141, BDCA-3, THBD, TM

Gene Source **Human**
Source **HEK 293 cells**
Assay&Purity **SDS-PAGE; ≥98%**
Assay2&Purity2 **HPLC;**
Recombinant **Yes**
Sequence **APAEPQPGGS QCVEHDCFAL YPGPATFLNA
SQICDGLRGH LMTVRSSVAA DVISLLLNGD
GGVGRRRLWI GLQLPPGCGD PKRLGPLRGF
QWVTGDNNTS YSRWARLDLN GAPLCGPLCV
AVSAAEATVP SEPIWEEQQC EVKADGFLCE
FHFPATCRPL AVEPGAAAAA VSITYGTPFA
ARGADFQALP VGSSAAVAPL GLQLMCTAPP
GAVQGHWARE APGAWDCSVE
NGGCEHACNA IPGAPRCQCP AGAALQADGR
SCTASATQSC NDLCHEHFCVP NPDQPGSYSC
MCETGYRLAA DQHRCEDVDD CILEPSPCPQ
RCVNTQGGFE CHCYPNYDLV DGECVEPVDP
CFRANCEYQC QPLNQTSYLC VCAEGFAPIP
HEPHRCQMFC NQTACPADCD PNTQASCECP
EGYILDDGFI CTDIDECENG GFCSGVCHNL
PGTFECICGP DSALARHIGT DCDSGKVDGG
DSGSGEPPPS PTPGSTLTTP A**

Target/Specificity
Thrombomodulin

Application Notes

Centrifuge the vial prior to opening. Reconstitute in water to a concentration of 0.1-1.0 mg/ml. Do not vortex. This solution can be stored at 2-8°C for up to 1 week. For extended storage, it is recommended to further dilute in a buffer containing a carrier protein (example 0.1% BSA) and store in working aliquots at -20°C to -80°C.

Format
Lyophilized powder

Storage

-20°C; Sterile filtered through a 0.2 micron filter. Lyophilized from 10 mM Sodium phosphate, pH 7.5.

Human CellExp Thrombomodulin, Human recombinant protein - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

Human CellExp Thrombomodulin, Human recombinant protein - Images**Human CellExp Thrombomodulin, Human recombinant protein - Background**

Thrombomodulin (TM, CD141, and THBD) is an endothelial cell expressed transmembrane glycoprotein that can form a complex with the coagulation factor, Thrombin. The Thrombomodulin/Thrombin complex converts protein C to its activated form, protein Ca, which in turn proteolytically cleaves and deactivates factor Va and factor VIIIa, two essential components of the coagulation mechanism. This inactivation reduces the generation of additional thrombin and thereby effectively prevents continued coagulation. Reduced levels of Thrombomodulin can correlate with the pathogenesis of certain cardiovascular diseases, such as atherosclerosis and thrombosis. However, the serum levels of the truncated circulating form of Thrombomodulin are typically elevated during inflammation and in the presence of various inflammatory related diseases. Recombinant soluble Thrombomodulin is a 491 amino acid glycoprotein containing the extracellular domain of Thrombomodulin.

Human CellExp Thrombomodulin, Human recombinant protein - References

Suzuki K., et al. EMBO J. 6:1891-1897(1987).
Wen D., et al. Biochemistry 26:4350-4357(1987).
Jackman R.W., et al. Proc. Natl. Acad. Sci. U.S.A. 84:6425-6429(1987).
Shirai T., et al. J. Biochem. 103:281-285(1988).
Deloukas P., et al. Nature 414:865-871(2001).