

Recombinant human Thrombomodulin/BDCA-3 protein

Catalog Number: ATGP3996

PRODUCT INFORMATION

Expression system

Baculovirus

Domain

22-515aa

UniProt No.

P07204

NCBI Accession No.

NP_000352

Alternative Names

THBD, Thrombomodulin, TM, Fetomodulin, CD141, CD141 antigen, THRM, BDCA-3, BDCA3, blood dendritic cell antigen 3, AHUS6, THPH12

PRODUCT SPECIFICATION

Molecular Weight

52.6kDa(500aa)

Concentration

0.5mg/ml (determined by Bradford assay)

Formulation

Liquid. In Phosphate-Buffered Saline (pH 7.4) containing 10% glycerol

Purity

> 90% by SDS-PAGE

Endotoxin level

< 1 EU per 1ug of protein (determined by LAL method)

Tag

His-Tag

Application

SDS-PAGE

Storage Condition

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

BACKGROUND

Description

Thrombomodulin, also known as CD141 or BDCA-3, is an endothelial cell-expressed, transmembrane glycoprotein that can form a complex with the coagulation factor, thrombin. This complex induce activation of protein C in the anticoagulant pathway by forming a 1:1 stoichiometric complex with thrombin. Thrombomodulin-

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bound thrombin has procoagulant effect at the same time by inhibiting fibrinolysis by cleaving thrombin-activatable fibrinolysis inhibitor (TAFI) into its active form. Reduced levels of thrombomodulin or increased serum levels of THBD can correlate with pathogenesis of certain cardiovascular diseases, such as atherosclerosis and thrombosis. In addition, It associated with liver cirrhosis, diabetes mellitus, cerebral and myocardial infarction, and multiple sclerosis. Recombinant human Thrombomodulin, fused to His-tag at C-terminus, was expressed in insect cell and purified by using conventional chromatography techniques.

Amino acid Sequence

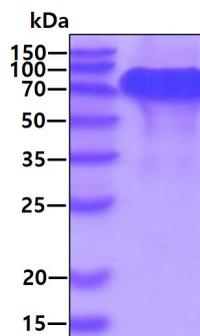
EPQPGGSQCV EHDCFALYPG PATFLNASQI CDGLRGHLMT VRSSVAADVI SLLNGDGGV GRRRLWIGLQ LPPGCGDPKR
LGPLRGFQWV TGDNNTSYSR WARLDLNGAP LCGPLCVAVS AAEATVPSEP IWEEQQCEVK ADGFLCEFHF PATCRPLAVE
PGAAAAAVSI TYGTPFAARG ADFQALPVGS SAAVAPLGLQ LMCTAPPGAV QGHWAREAPG AWDCSVENGG CEHACNAIPG
APRCQCPAGA ALQADGRSCT ASATQSCNDL CEHFCVPNPD QPGSYSCMCE TGYRLAADQH RCEDVDDCIL EPSPCPQRCV
NTQGGFECHC YPNYDLVDGE CVEPVDPCFR ANCEYQCQPL NQTSYLCVCA EGFAPIPHEP HRCQMFCNQT ACPADCDPNT
QASCECEPEGY ILDDGFICTD IDECENGGFC SGVCHNLPGT FECICGPDSA LARHIGTDCD SGKVDGGDSG SGEPPPSPTP
GSTLTPPAVG LVHS<HHHHHH>

General References

Bajzar L, Morser J, Nesheim M (1996). The Journal of Biological Chemistry. 271: 16603-16608.
Jakubowski HV, Owen WG (1989). The Journal of Biological Chemistry. 264: 11117-11121.
Weiler, H. and B.H. Isermann (2003) J. Thromb. Haemost. 1:1515-1524.
Califano, F. et al. (2000) Eur. Rev. Med. Pharmacol. Sci. 4:59-66.

DATA

SDS-PAGE



3 μ g by SDS-PAGE under reducing condition and visualized by coomassie blue stain