
Product Data Sheet

Product Name: THBD Human
 Cat. No.: GP26352
 Batch No.: 1

Product Data

Purity	>98%	Source	Sf9, Baculovirus cells.
Physical Appearance	solid	Shipping Condition	withIcePacks
Synonyms	THBD, Thrombomodulin, TM, Fetomodulin, CD141, CD141 antigen, THRM, BDCA-3, BDCA3, blood dendritic cell antigen 3, AHUS6, THPH12.		
Amino Acid Sequence	EPQPGGSQCV EHD CFALYPG PATFLNASQI CDGLRGHLMT VRSSVAADVI SLLLNGDGGV GRRRLWIGLQ LPPGCGDPKR LGPLRGFQWV TGDNNTSYSR WARLDLNGAP LCGPLCVAVS AAEATVPSEP IWEEQQCEVK ADGFLCEFHF PATCRPLAVE PGAAAAAVSI TYGTPFAARG ADFQALPVGS SAAVAPLGLQ LMCTAPPGAV QGHWAREAPG AWDCSVENGG CEHACNAIPGAPRCQCPAGA ALQADGRSCT ASATQSCNDL CEHFCVNPDP QPGSYSCMCE TGYRLAADQH RCEDVDDCIL EPSPCPQRCV NTQGGFECHC YPNYDLVDGE CVEPVDPCFR ANCEYQCQPL NQTSYLCVCA EGFAPIPHEP HRCQMFCNQT ACPADCDPNT QASCECEPEGY ILDDGFICTD IDECENGGFC SGVCHNLPGT FECICGPDSA LARHIGTD CD SGKVDGGDSG SGEPPPSPTPGSTLTPPAVG LVHSHHHHHH		
Formulation	THBD protein solution (0.5mg/ml) contains Phosphate-Buffered Saline (pH 7.4) and 10% glycerol.		

Introduction

Thrombomodulin, also referred to THBD, is an endothelial cell-expressed, transmembrane glycoprotein that can form a complex with the coagulation factor, thrombin. This complex increases the activation of protein C in the anticoagulant pathway by forming a 1:1 stoichiometric complex with thrombin. Thrombomodulin 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. Furthermore, it is associated with, diabetes mellitus, liver cirrhosis, cerebral & myocardial infarction, and

Caution: Product has not been fully validated for medical applications. For research use only.

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multiple sclerosis.

Stability

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

Background

THBD Human Recombinant produced in Sf9 Baculovirus cells is a single, glycosylated polypeptide chain containing 500 amino acids (22-515a.a) and having a molecular mass of 52.6kDa. THBD is fused to an 6 amino acid His-tag at C-terminus & purified by proprietary chromatographic techniques.

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