

Recombinant Human Thrombomodulin/CD141 Protein

Catalog No.: RP03213LQ Recombinant

Sequence Information

Species Gene ID Swiss Prot Human 7056 P07204

Tags

C-His

Synonyms

Thrombomodulin; THBD; TM; Fetomodulin; CD141; THRM

Product Information

Source

Purification

HEK293 cells

≥ 95 % as determined by SDS-

PAGE.

Calculated MW Observed MW

52.9 KDa 72 KDa

Endotoxin

< 1 EU/µg of the protein by LAL method.

Formulation

Supplied as a 0.22 μm filtered solution in 20mM Tris-HCl, 150mM NaCl, pH 8.0. Contact us for customized product form or formulation.

Reconstitution

Contact

<u>a</u>	400-999-6126
\bowtie	cn.market@abclonal.com.cn
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Background

Thrombomodulin is a specific endothelial cell receptor that forms a 1:1 stoichiometric complex with thrombin. This complex is responsible for the conversion of protein C to the activated protein C (protein Ca). Human Thrombomodulin/THBD predicts a signal peptide and a mature chain that consists of following domains: C-type lectin, EGF-like, transmembrane and cytoplasmic. Predominantly synthesized by vascular endothelial cells, THBD inhibits coagulation and fibrinolysis. THBD gene polymorphisims are associated with human disease and THBD plays a role in thrombosis, stroke, arteriosclerosis, and cancer. For example, increased serum levels of THBD, due to protease cleavage, have been associated with smoking, cardiac surgery, atherosclerosis, liver cirrhosis, diabetes mellitus, cerebral and myocardial infarction, and multiple sclerosis.

Basic Information

Description

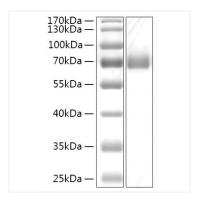
Recombinant Human Thrombomodulin/CD141 Protein is produced by HEK293 cells expression system. The target protein is expressed with sequence (Ala19-Ser515) of human Thrombomodulin (Accession #NP_000352.1) fused with His tag at the C-terminus.

Bio-Activity

Storage

Store at -70° C. This product is stable at $\leq -70^{\circ}$ C for up to 1 year from the date of receipt. For optimal storage, aliquot into smaller quantities after centrifugation and store at recommended temperature. Avoid repeated freeze-thaw cycles. Avoid repeated freeze/thaw cycles.

Validation Data



Recombinant Human Thrombomodulin/CD141 Protein was determined by SDS-PAGE under reducing conditions with Coomassie Blue.