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**Catalog No.: RP03213LQ** **Recombinant**

## Background

Species	Gene ID	Swiss Prot
Human	7056	P07204

## C-His

Thrombomodulin; THBD; TM;  
Fetomodulin; CD141; THRM

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 polymorphisms 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

<b>Source</b>	<b>Purification</b>
HEK293 cells	≥ 95 % as determined by SDS-PAGE.

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.

Calculated MW	Observed MW
52.9 KDa	72 KDa

## Storage

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

Store at -70°C. This product is stable at  $\leq -70^{\circ}\text{C}$  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.

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

☎ | 400-999-6126

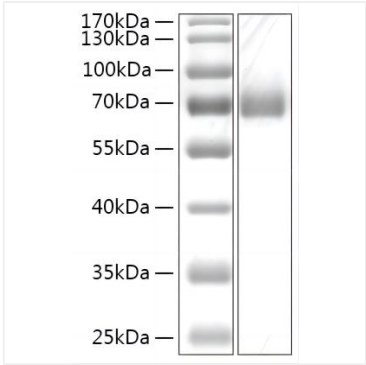
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✉ | [cn.market@abclonal.com.cn](mailto:cn.market@abclonal.com.cn)

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Validation Data



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