

Recombinant Human Thrombomodulin 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% by SDS-PAGE.

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

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 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

Description

Recombinant Human Thrombomodulin 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

This product is stable at ≤ -70°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.

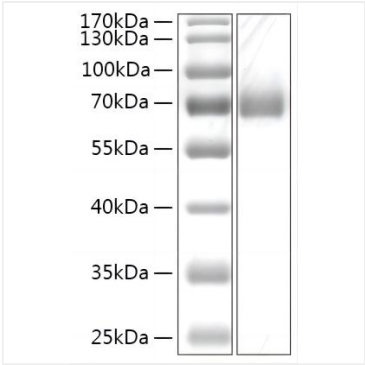
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Validation Data



Recombinant Human Thrombomodulin
Protein was determined by SDS-PAGE with
Coomassie Blue, showing a band at 72 kDa.