For Research Use Only

Recombinant Human Thrombomodulin (His Tag)

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Catalog Number: Eg0944

Basic Information

ED50:
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Species:
Human

Purity:
>85 %, SDS-PAGE

GeneID:
7056

Accession:
P07204

Technical Specifications

Purity:
>85 %, SDS-PAGE

Endotoxin Level:
<1.0 EU/ μ g protein, LAL method

Source:
HEK293-derived Human Thrombomodulin protein Ala19-Ser515 (Accession# P07204) with a His Tag at the C-terminus.

Predicted Molecular Mass:
52.9 kDa

SDS-PAGE:
70-100 kDa, reducing (R) conditions

Formulation:
Lyophilized from sterile PBS, pH 7.4. Normally 5% trehalose and 5% mannitol are added as protectants before lyophilization.

Biological Activity

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Storage and Shipping

Storage:
It is recommended that the protein be aliquoted for optimal storage. Avoid repeated freeze-thaw cycles.

- Until expiry date, -20℃ to -80℃ as lyophilized proteins.
- 3 months, -20℃ to -80℃ under sterile conditions after reconstitution.

Shipping:
The product is shipped at ambient temperature. Upon receipt, store it immediately at the recommended temperature.

Reconstitution

Briefly centrifuge the tube before opening. Reconstitute at 0.1-0.5 mg/mL in sterile water.

Background

Thrombomodulin, also known as CD141, is an endothelial cell surface glycoprotein that forms a 1:1 complex with the coagulation factor thrombin and plays an important role as a natural anticoagulant. Thrombomodulin serves to convert thrombin from a procoagulant protein into the activator for protein C. Once converted to activated protein C (APC), this protein serves as a major anticoagulant in blood. Thrombomodulin is also located in other cells (keratinocytes, osteoblasts, macrophages,...) where it might be involved in cell differentiation or in inflammation. Mutations in the gene of thrombomodulin are a cause of thromboembolic disease, also known as inherited thrombophilia.

References

1. N L Esmon, et al. (1987) Semin Thromb Hemost. 13(4):454-63.
2. A K Ohlin, et al. (1997) Thromb Haemost. 78(1):396-400.
3. M C Boffa, et al. (1998) Lupus.7 Suppl 2:S120-5.
4. Georgia Anastasiou, et al. (2012) Blood Coagul Fibrinolysis. 23(1):1-10.

Synonyms

THBD

Selected Validation Data