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Recombinant Human Thrombomodulin
Catalog # PBG10444

Specification

Recombinant Human Thrombomodulin - Product Information

Recombinant Human Thrombomodulin - Additional Information

Description
Thrombomodulin (TM, CD141, THBD) is an endothelial cell expressed transmembrane glycoprotein that can form a complex with the coagulation factor, Thrombin. The Thrombomodulin/Thrombin complex converts protein C to its activated form, protein Ca, which in turn proteolytically cleaves and deactivates factor Va and factor VIIIa, two essential components of the coagulation mechanism. This inactivation reduces the generation of additional thrombin and thereby effectively prevents continued coagulation. Reduced levels of Thrombomodulin can correlate with the pathogenesis of certain cardiovascular diseases, such as atherosclerosis and thrombosis. However, the serum levels of the truncated circulating form of Thrombomodulin are typically elevated during inflammation and in the presence of various inflammatory related diseases. Recombinant soluble Thrombomodulin is a 491 amino acid glycoprotein containing the extracellular domain of Thrombomodulin.

BiologicalActivity
Measured by its ability to activate protein C induced cleavage of the chromogenic substrate, BOC-Asp-Pro Arg-AMC in the presence of thrombin. The specific activity is greater than 500 pmoles/min/ug.

Authenticity
Verified by N-terminal and Mass Spectrometry analyses (when applicable).

Endotoxin
Endotoxin level is <0.1 ng/ µg of protein (<1EU/ µg).

Protein Content
Verified by UV Spectroscopy and/or SDS-PAGE gel.

Storage
-20°C

Precautions
Recombinant Human Thrombomodulin is for research use only and not for use in diagnostic or therapeutic procedures.

Recombinant Human Thrombomodulin - Protocols

Provided below are standard protocols that you may find useful for product applications.

- Western Blot
- Blocking Peptides

- Dot Blot
- Immunohistochemistry
- Immunofluorescence
- Immunoprecipitation
- Flow Cytomety
- Cell Culture

Recombinant Human Thrombomodulin - Images