



Recombinant Protein Technical Manual
Recombinant Rat Thrombomodulin Protein (His Tag)
RPES4057

Product Data:

Product SKU: RPES4057

Size: 10 μ g

Species: Rat

Expression host: HEK293 Cells

Uniprot: O35370

Protein Information:

Molecular Mass: 55.2 kDa

AP Molecular Mass: 95 kDa

Tag: C-His

Bio-activity:

Purity: > 90 % as determined by SDS-PAGE

Endotoxin: < 1.0 EU per μ g of the protein as determined by the LAL method

Storage: Lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C. Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted samples are stable at < -20°C for 3 months.

Shipping: This product is provided as lyophilized powder which is shipped with ice packs.

Formulation: Lyophilized from sterile PBS, pH 7.4

Reconstitution: Please refer to the printed manual for detailed information.

Application:

Synonyms: THBD

Immunogen Information:

Sequence: Met1-Ser517

Background:

Thrombomodulin, also known as THBD(CD141), is an integral membrane protein which reduces blood coagulation by converting thrombin to an anticoagulant enzyme from a procoagulant enzyme. Thrombomodulin is expressed on the surface of endothelial cells and serves as a cofactor for thrombin. It is also expressed on human mesothelial cell, monocyte and a dendritic cell subset. Thrombomodulin functions as a cofactor in the thrombin-induced activation of protein C in the anticoagulant pathway by forming a 1:1 stoichiometric complex with thrombin. Thrombomodulin also regulates C3b inactivation by factor I. Mutations in the thrombomodulin gene have also been reported to be associated with atypical hemolytic-uremic syndrome.