

Thrombomodulin Protein, Rat (HEK293, His)

Cat. No.:	HY-P74519
Synonyms:	Thrombomodulin; TM; Fetomodulin; CD141; BDCA-3; Thbd
Species:	Rat
Source:	HEK293
Accession:	O35370 (M1-S517)
Gene ID:	83580
Molecular Weight:	Approximately 95 kDa

PROPERTIES

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μ m filtered solution of PBS, pH 7.4. Normally 5% - 8% trehalose, mannitol and 0.01% Tween 80 are added as protectants before lyophilization.
Endotoxin Level	<1 EU/ μ g, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 μ g/mL in ddH ₂ O.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	Thrombomodulin Protein functions as a specific endothelial cell receptor, engaging in a 1:1 stoichiometric complex with thrombin. This complex plays a pivotal role in converting protein C to its activated form, protein Ca, which, in turn, cleaves the activated cofactors of the coagulation mechanism—factor Va and factor VIIIa—resulting in a reduction in the overall production of thrombin. Thrombomodulin's interactions with ITGAL, ITGAM, and ITGB2 underscore its involvement in cellular interactions, potentially influencing immune responses. This intricate interplay highlights the crucial role of Thrombomodulin in modulating the coagulation pathway and maintaining hemostatic balance.
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Caution: Product has not been fully validated for medical applications. For research use only.

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