

Thrombomodulin Protein, Human (HEK293, His)

Cat. No.:	HY-P70724A
Synonyms:	Thrombomodulin; THBD; TM; Fetomodulin; CD141; THRM
Species:	Human
Source:	HEK293
Accession:	P07204 (A19-S515)
Gene ID:	7056
Molecular Weight:	Approximately 64-67 kDa

PROPERTIES

AA Sequence

A P A E P Q P G G S	Q C V E H D C F A L	Y P G P A T F L N A	S Q I C D G L R G H
L M T V R S S V A A	D V I S L L L N G D	G G V G R R R L W I	G L Q L P P G C G D
P K R L G P L R G F	Q W V T G D N N T S	Y S R W A R L D L N	G A P L C G P L C V
A V S A A E A T V P	S E P I W E E Q Q C	E V K A D G F L C E	F H F P A T C R P L
A V E P G A A A A A	V S I T Y G T P F A	A R G A D F Q A L P	V G S S A A V A P L
G L Q L M C T A P P	G A V Q G H W A R E	A P G A W D C S V E	N G G C E H A C N A
I P G A P R C Q C P	A G A A L Q A D G R	S C T A S A T Q S C	N D L C E H F C V P
N P D Q P G S Y S C	M C E T G Y R L A A	D Q H R C E D V D D	C I L E P S P C P Q
R C V N T Q G G F E	C H C Y P N Y D L V	D G E C V E P V D P	C F R A N C E Y Q C
Q P L N Q T S Y L C	V C A E G F A P I P	H E P H R C Q M F C	N Q T A C P A D C D
P N T Q A S C E C P	E G Y I L D D G F I	C T D I D E C E N G	G F C S G V C H N L
P G T F E C I C G P	D S A L A R H I G T	D C D S G K V D G G	D S G S G E P P P S
P T P G S T L T P P	A V G L V H S		

Biological Activity Measured by its ability to mediate thrombin activation of protein C. The specific activity is 49380.98 pmol/min/μg, as measured under the described conditions.

Appearance Lyophilized powder.

Formulation Lyophilized from a 0.2 μm filtered solution of 20 mM Tris-HCl, 150 mM NaCl, pH 8.0

Endotoxin Level <1 EU/μg, determined by LAL method.

Reconstitution It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH₂O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).

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, a distinctive endothelial cell receptor, establishes a precise 1:1 stoichiometric complex with thrombin, playing a crucial role in the regulation of coagulation. This complex facilitates the conversion of protein C to its activated form, protein Ca. Once activated, protein Ca acts by cleaving the activated cofactors of the coagulation cascade, namely factor Va and factor VIIIa, effectively curbing the generation of thrombin. Thrombomodulin's interaction with ITGAL, ITGAM, and ITGB2 further underscores its involvement in modulating immune responses.

Caution: Product has not been fully validated for medical applications. For research use only.

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