

Thrombomodulin Protein, Human (HEK293, His, solution)

Cat. No.:	HY-P70724
Synonyms:	Thrombomodulin; THBD; TM; Fetomodulin; CD141; THRM
Species:	Human
Source:	HEK293
Accession:	P07204 (A19-S515)
Gene ID:	7056
Molecular Weight:	Approximately 72 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		

Appearance Solution.

Formulation Supplied as 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 N/A

Storage & Stability Stored at -80°C for 1 year. It is stable at -20°C for 3 months after opening. It is recommended to freeze aliquots at -80°C for extended storage. Avoid repeated freeze-thaw cycles.

Shipping Shipping with dry ice.

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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