

Recombinant Human THBD

Cat. No. THBD-31179TH **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant fragment, corresponding to amino acids 19-509 of Human Thrombomodulin, expressed in HEK293 cells; 491 amino acids, Predicted MWt 51.5 kDa.
Species	Human
ProteinLength	491 amino acids
Description	The protein encoded by this intronless gene is an endothelial-specific type I membrane receptor that binds thrombin. This binding results in the activation of protein C, which degrades clotting factors Va and VIIIa and reduces the amount of thrombin generated. Mutations in this gene are a cause of thromboembolic disease, also known as inherited thrombophilia.
Molecular Weight	51.500kDa
Tissue specificity	Endothelial cells are unique in synthesizing thrombomodulin.
Biological activity	Biological Activity :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.
Form	Lyophilised
Purity	>95% by SDS-PAGE

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Storage buffer	Preservative: None Constituents: 10mM Sodium phosphate, pH 7.5
Storage	The lyophilized protein is stable at room temperature for up to 1 month. Working aliquots stored with a carrier protein are stable for at least 3 months at -20°C to -80°C. Avoid repeated freeze/thaw cycles. See reconstitution notes
Sequences of amino acids	APAEPQPGGSQCVEHDCFALYPGPATFLNASQICDGLRGHMTVRSSVAADVISLLL NGDGGVGRRRLWIGLQLPPGCGDPKRLGPLRGFQWVTGDNNTSYSRWARLDLNG APLCGPLCVAVSAAEATVPSEPIWEEQQCEVKADGFLCEFHFPATCRPLAVEPGAA AAASITYGTPFAARGADFQALPVGSSAAVAPLGLQLMCTAPPGAVQGHWAREAP GAWDCSVENGGCEHACNAIPGAPRCQCPAGAALQADGRSCTASATQSCNDLCEH FCVPNPDQPGSYSCMCETGYRLAADQHRCEDVDDCILEPSPCPQRCVNTQGGFEC HCYPNYDLVDGECVEPVDPCFRANCEYQCQPLNQTSYLCVCAEGFAPIPEPHRC QMFCNQ TACPADCDPNTQASCECPEGYILDDGFICTDIDECENGGFCSGVCHNLPG TFECICGPDSALARHIGTDCDSGKVDGGDSGSGEPSPPTPGSTLTPPA
Sequence Similarities	Contains 1 C-type lectin domain. Contains 6 EGF-like domains.
GENE INFORMATION	
Gene Name	THBD thrombomodulin [Homo sapiens]
Official Symbol	THBD
Synonyms	THBD; thrombomodulin; CD141;
Gene ID	7056
mRNA Refseq	NM_000361

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Protein Refseq	NP_000352
Uniprot ID	P07204
Chromosome Location	20p12-cen
Pathway	Cell surface interactions at the vascular wall, organism-specific biosystem; Common Pathway, organism-specific biosystem; Complement and Coagulation Cascades, organism-specific biosystem; Complement and coagulation cascades, organism-specific biosystem; Complement and coagulation cascades, conserved biosystem;
Function	calcium ion binding; protein binding; receptor activity; transmembrane signaling receptor activity;

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