

Datasheet for ABIN2469135
Thrombomodulin Protein (THBD)



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Overview

Quantity:	0.002 mg
Target:	Thrombomodulin (THBD)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Biological Activity:	Active

Product Details

Sequence: APAEPQPGGS QCVEHDCFAL YPGPATFLNA SQICDGLRGH LMTVRSSVAA DVISLLLNGD
GGVGRRLWI GLQLPPGCGD PKRLGPLRGF QWVTGDNNTS YSRWARLDLN GAPLCGPLCV
AVSAAEATVP SEPIWEEQQC EVKADGFLCE FHF PATCRPL AVEPGAAAAA VSITYGTPFA
ARGADFQALP VGSSAAVAPL GLQLMCTAPP GAVQGHWARE APGAWDCSVE NGGCEHACNA
IPGAPRCQCP AGAALQADGR SCTASATQSC NDLCEHFCVP NPDQPGSYSC MCETGYRLAA
DQHRCEDVDD CILEPSPCPQ RCVNTQGGFE CHCYPNYDLV DGECVEPVDP CFRANCEYQC
QPLNQTSYLC VCAEGFAPIP HEPHRCQMFC NQTACPADCD PNTQASCECP EGYILDDGFI
CTDIDECENG GFCSGVCHNL PGTFECICGP DSALARHIGT DCDSGKVDGG DSGSGEPPPS
PTPGSTLTPP A

Characteristics: Biological activity was 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/ μ g.

Purity: \leq 98 % by SDS-PAGE gel and HPLC analyses.

Endotoxin Level: Endotoxin level is less than 0.1 ng per μ g (1 EU/ μ g).

Target Details

Target:	Thrombomodulin (THBD)
Alternative Name:	Thrombomodulin (THBD Products)
Background:	<p>Thrombomodulin (TM, CD141, THBD) is an endothelial cell expressed transmembrane glycoprotein that can form a complex with the coagulation factor, Thrombin. The Thrombomodulin/Thrombin complex converts protein C to its activated form, protein Ca, which in turn proteolytically cleaves and deactivates factor Va and factor VIIIa, two essential components of the coagulation mechanism. This inactivation reduces the generation of additional thrombin and thereby effectively prevents continued coagulation. Reduced levels of Thrombomodulin can correlate with the pathogenesis of certain cardiovascular diseases, such as atherosclerosis and thrombosis. However, the serum levels of the truncated circulating form of Thrombomodulin are typically elevated during inflammation and in the presence of various inflammatory related diseases. Recombinant soluble Thrombomodulin is a 491 amino acid glycoprotein containing the extracellular domain of Thrombomodulin.</p>
Gene ID:	7056
NCBI Accession:	NP_000352
OMIM:	4507483
UniProt:	P07204

Application Details

Restrictions: For Research Use only

Handling

Format:	Lyophilized
Handling Advice:	<p>As with any protein, exposing Thrombomodulin recombinant protein to repeated freeze / thaw cycles is not recommended. When working with proteins care should be taken to keep recombinant protein at a cool and stable temperature.</p>
Storage:	-20 °C
Storage Comment:	<p>The recombinant protein is stable for at least 2 years from date of receipt at -20 °C.</p> <p>Reconstituted Thrombomodulin is stable for at least 3 months when stored in working aliquots with a carrier protein at -20 °C.</p>
Expiry Date:	24 months