

TECHNICAL DATA SHEET

Recombinant Human Thrombomodulin (Carrier-Free)

Catalog Number: 21-9051

RPx-Pro™ Recombinant Protein

PRODUCT INFORMATION

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Recombinant Human Thrombomodulin (Carrier-Free)

DESCRIPTION

Thrombomodulin (TM, CD141, THBD) is an endothelial cell-expressed, transmembrane glycoprotein that can form a complex with the coagulation factor, thrombin. The thrombomodulin protein contains 575 amino acids, including an 18 a.a. signal sequence, a 497 a.a. extracellular domain, a 24 a.a. transmembrane sequence, and a 36 a.a. cytoplasmic region.

MOLECULAR MASS

Recombinant soluble Human Thrombomodulin is a 491 amino acid glycoprotein containing the extracellular domain of thrombomodulin.

AMINO ACID SEQUENCE

APAEPQPGGS QCVEHDCFAL YPGPATFLNA SQICDGLRGH LMTVRSSVAA DVISLLLNGD GVGRRRLWI GLQLPPGCGD PKRLGPLRGF
 QWVTGDNNTS YSRWARLDLN GAPLCGPLCV AVSAAEATVP SEPIWEEQQC EVKADGFLCE FHFPATCRPL AVEPGAAAAA VSITYGTPFA
 ARGADFQALP VGSSAAVAPL GLQLMCTAPP GAVQGHWARE APGAWDCSVE NGGCEHACNA IPGAPRCQCP AGAALQADGR SCTASATQSC
 NDLCHEHFCVP NPDQPGSYSC MCETGYRLAA DQHRCEDVDD CILESPCPQ RCVNTQGGFE CHCYPNYDLV DGECVEPVPD CFRANCEYQC
 QPLNQTSYLC VCAEGFAPIP HEPHRCQMFC NQTACPADCD PNTQASCECP EGYILDDGFI CTDIDECENG GFCSGVCHNL PGTFECICGP DSALARHIGT
 DCDSGKVDGG DSGSGEPPPS PTPGSTLTTP A

SOURCE

HEK293 cells

APPLICATIONS

Bioassay

PURITY

98 %

STORAGE

-20°C

PROTEIN CONTENT

Content Verified by UV Spectroscopy and/or SDS-PAGE gel.

ENDOTOXIN LEVEL

Endotoxin level is <0.1 ng/µg of protein (<1EU/µg).

AUTHENTICITY

Verified by N-terminal and Mass Spectrometry analyses (when applicable).

CROSS REACTIVITY

BIOACTIVITY

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.

RESEARCH AREAS

Immune System, Inflammation, Angiogenesis/Cardiovascular, Cancer

RECONSTITUTION

See Certificate of Analysis (COA) for lot specific reconstitution information.

REFERENCES

Helms J, Clere-Jehl R, Bianchini E, Le Borgne P, Burban M, Zobairi F, Diehl JL, Grunebaum L, Toti F, Meziani F, Borgel D. Ann Intensive Care. 2017 Dec 8;7(1):118. doi: 10.1186/s13613-017-0340-z. Lin X, Wang H, Li Y, Yang J, Yang R, Wei D, Zhang J, Yang D, Wang B, Ren X, Cheng G. Am J Transl Res. 2017 Nov 15;9(11):4821-4835. eCollection 2017.

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