

TECHNICAL DATA SHEET

Recombinant Human Tissue Factor (Carrier-free)

Catalog Number: 21-9233

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

CONTENTS

Recombinant Human Tissue Factor (Carrier-free)

DESCRIPTION

Tissue factor (TF), a single-pass type I membrane glycoprotein is also known as coagulation factor III, F3, and CD142. TF functions as a cofactor for plasma clotting protease factor VIIa (FVIIa) to initiate the coagulation cascade by activating clotting proteins factors IX and X. Tissue factor is stored on the surface of mononuclear and endothelial cells in microparticles that can shed into circulation in response to vascular injury, pro-inflammatory cytokines, or microbial ligands. Recombinant Human Tissue Factor is a glycoprotein homodimer comprised of the 227-amino-acid length monomer containing a C-terminal His-Tag. It has a calculated molecular weight of approximately 25.8 kDa, and as a result of glycosylation, Recombinant Human Tissue Factor migrates with an apparent molecular mass of approximately 40-50 kDa by SDS-PAGE gel.

MOLECULAR MASS

25.8 kDa

AMINO ACID SEQUENCE

SGTTNTVAAY NLTWKSTNFK TILEWEPKPV NQVYTVQIST KSGDWKSKCF YTTDTECDLT DEIVKDVKQT YLARVFSYPA GNVESTGSAG EPLYENSPEF
 TPYLETNLGG PTIQSFEQVG TKVNVTVVEDE RTLVRNNTF LSLRDVFGKD LIYTLYYWKS SSGGKKTAKT NTNEFLIDVD KGENYCFSVQ AVIPSRTVNR
 KSTDSPVECM GGEKGEFREH HHHHHHH

SOURCE

CHO

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 (<1 EU/μg).

AUTHENTICITY

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

CROSS REACTIVITY

N/A

BIOACTIVITY

Functional activity of Tissue Factor is determined by its ability to activate fluorogenic peptide substrate Boc-VPR-AMC cleavage, when bound in 1:1 complex with Coagulation Factor VII.

RESEARCH AREAS

RECONSTITUTION

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

REFERENCES

Citations are provided as a resource for additional applications that have not been validated by Tonbo Biosciences. Please choose the appropriate format for each application and consult Materials and Methods sections for additional details about the use of any product in these publications.

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