

## TECHNICAL DATA SHEET

# Recombinant Human/Mouse/Rat Thymosin beta4 (Carrier-Free)

Catalog Number: 21-9213

## RPx-Pro™ Recombinant Protein

### PRODUCT INFORMATION

#### CONTENTS

Recombinant Human/Mouse/Rat Thymosin beta4 (Carrier-Free)

#### DESCRIPTION

Thymosin-beta4 is a small, actin-sequestering protein belonging to the thymosin-beta family that is found at high concentrations within the spleen, thymus, and peritoneal macrophages, where it is most notably responsible for the organization of cytoskeletal structure.

#### MOLECULAR MASS

Recombinant Human Thymosin-beta4 is a 5.2 kDa glycoprotein containing 45 amino acid residues.

#### AMINO ACID SEQUENCE

RMSDKPDMAE IEKFDKSKLK KTETQEK NPL PSKETIEQEK QAGES

#### SOURCE

HEK293 cells

#### APPLICATIONS

Bioassay

#### PURITY

95 %

#### 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

Mouse

#### BIOACTIVITY

Pretreatment of primary lung fibroblasts with recombinant Thymosin-beta4, using a concentration of 0.5 - 10 ug/ml, produces a protective effect against hydrogen peroxide induced cell death.

#### RESEARCH AREAS

Stem Cells & Differentiation, TGF-Beta Superfamily

#### RECONSTITUTION

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

#### REFERENCES

Fu, Y. Direct reprogramming of mouse fibroblasts into cardiomyocytes with chemical cocktails. 2015. Cell Research; 25(9):1013-24.

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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