

TECHNICAL DATA SHEET

Recombinant Human TFF1 (TreFoil 1) (Carrier-Free)

Catalog Number: 21-9170

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

CONTENTS

Recombinant Human TFF1 (TreFoil 1) (Carrier-Free)

DESCRIPTION

The Trefoil Factor peptides (TFF1, TFF2 and TFF3) are expressed in the gastrointestinal tract, and appear to play an important role in intestinal mucosal defense and repair. TFF1 is essential for normal differentiation of the antral and pyloric gastric mucosa, and functions as a gastric-specific tumor suppressor gene.

MOLECULAR MASS

Recombinant Human TFF-1 is a 6.7 kDa monomeric protein consisting of a 60 amino acid polypeptide chain, which includes a 40-amino acid trefoil motif containing three conserved intramolecular disulfide bonds.

AMINO ACID SEQUENCE

EAQTETCTVA PRERQNCGFP GVTPSQCANK GCCFDDTVRG VPWCFYPNTI DVPPEEECEF

SOURCE

E. coli

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

Human

BIOACTIVITY

Determined by its ability to chemoattract human MCF-7 cells using a concentration 5-10 ug/ml.

RESEARCH AREAS

Stem Cells & Differentiation, Wound Healing, Cancer

RECONSTITUTION

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

REFERENCES

Radloff, D.R. Trefoil factor 1 acts to suppress senescence induced by oncogene activation during the cellular transformation process. 2011. Proceedings of the National Academy of Sciences of the USA; 108(16):6591-6.

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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