

TECHNICAL DATA SHEET

Recombinant Human TFF3 (TreFoil 3) (Carrier-Free)

Catalog Number: 21-9173

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

CONTENTS

Recombinant Human TFF3 (TreFoil 3) (Carrier-Free)

DESCRIPTION

The Trefoil Factor peptides (TFF1, TFF2 and TFF3) are secreted in the gastrointestinal tract, and appear to play an important role in intestinal mucosal defense and repair. TFF-3 is expressed by goblet cells and in the uterus, and has also been shown to be expressed in certain cancers, including colorectal, hepatocellular, and in biliary tumors. TFF3 may be useful as a molecular marker for certain types of cancer, but its role, if any, in tumorigenesis is unknown. TFF3 also promotes airway epithelial cell migration and differentiation.

MOLECULAR MASS

Recombinant Human TFF-3 is a 13.2 kDa homodimeric protein consisting of two 59 amino acid chains, which includes a 40-amino acid trefoil motif containing three conserved intramolecular disulfide bonds.

AMINO ACID SEQUENCE

EEYVGLSANQ CAVPAKDRVD CGYPHVTPKE CNNRGCCFDS RIPGVPWCFK PLQEAECTF

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

N/A

BIOACTIVITY

Determined by its ability to chemoattract human MCF-7 cells using a concentration range of 1.0-10.0 ug/ml.

RESEARCH AREAS

Stem Cells & Differentiation, Wound Healing, Cancer

RECONSTITUTION

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

REFERENCES

Khummuang S, Phanphrom W, Laopajon W, Kasinrerker W, Chaiyarit P, Pata S. Biol Proced Online. 2017 Nov 8;19:14. doi: 10.1186/s12575-017-0064-3.
 Pandey V, Zhang M, Chong QY, You M, Raquib AR, Pandey AK, Liu DX, Liu L, Ma L, Jha S, Wu ZS, Zhu T, Lobie PE. Oncotarget. 2017 Aug 24;8(44):77268-77291. doi: 10.18632/oncotarget.2046.

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