

TECHNICAL DATA SHEET

Recombinant Human TFF2 (TreFoil 2) (Carrier-Free)

Catalog Number: 21-9169

RPx-Pro™ Recombinant Protein
PRODUCT INFORMATION

CONTENTS

Recombinant Human TFF2 (TreFoil 2) (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. TFF2 has been shown to inhibit gastrointestinal motility and gastric acid secretion.

MOLECULAR MASS

Recombinant Human TFF-2 is a 12.0 kDa polypeptide of 107 amino acid residues, which includes a 40-amino acid trefoil motif containing three conserved intramolecular disulfide bonds.

AMINO ACID SEQUENCE

AEKPSPCQCS RLSPHNRTNC GFPGITSDQC FDNGCCFDSS VTGVPWCFHP LPKQESDQCV MEVSDRRNCG YPGISPEECA SRKCCFSNFI
 FEVPWCFPPK SVEDCHY

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, Mouse

BIOACTIVITY

Assay #1: Determined by its ability to chemoattract human monocytes using a concentration range of 1.0-10.0 µg/ml. Assay #2: Determined by its ability to chemoattract human MCF-7 cells using a concentration range of 1.0-10.0 ng/ml.

RESEARCH AREAS

Stem Cells & Differentiation, Wound Healing, Cancer

RECONSTITUTION

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

REFERENCES

Dubeykovskaya, Z. Secreted trefoil factor 2 activates the CXCR4 receptor in epithelial and lymphocytic cancer cell lines. 2009. The Journal of Biological Chemistry; 284(6):3650-62. Wills-Karp, M. Trefoil factor 2 rapidly induces interleukin 33 to promote type 2 immunity during allergic asthma and hookworm infection. 2012. The Journal of Experimental Medicine; 209(3):607-22.

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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