

## Active Recombinant Human TFF3 Protein (59 aa)

**Cat. No.** TFF3-112T    **Lot. No.** (See product label)

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
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| <b>Product Overview</b> | Recombinant Human TFF3 Protein without tag was expressed in E. coli.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>ProteinLength</b>    | 59                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Description</b>      | 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 express 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. |
| <b>Form</b>             | Sterile Filtered White lyophilized (freeze-dried) powder.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Bio-activity</b>     | Determined by its ability to chemoattract human MCF-7 cells using a concentration range of 1.0-10.0 µg/mL.                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Molecular Mass</b>   | Approximately 6.5 kDa, a single non-glycosylated polypeptide chain containing 59 amino acids.                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| <b>AA Sequence</b>      | EEYVGLSANQCAVPAKDRVDCGYPHVTPKECNNRGCCFDSRIPGVPWC FKPLQEA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

|                       |                                                                                                                                                                                                                                                                                                                                                                                               |
|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| ECTF                  |                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Endotoxin</b>      | Less than 1 EU/μg of rHuTFF3 as determined by LAL method.                                                                                                                                                                                                                                                                                                                                     |
| <b>Purity</b>         | >95% by SDS-PAGE and HPLC analyses.                                                                                                                                                                                                                                                                                                                                                           |
| <b>Storage</b>        | This lyophilized preparation is stable at 2-8 centigrade, but should be kept at -20 centigrade for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 centigrade. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 to -70 centigrade. Avoid repeated freeze/thaw cycles. |
| <b>Storage Buffer</b> | Lyophilized from a 0.2mm filtered concentrated solution in PBS, pH 7.4.                                                                                                                                                                                                                                                                                                                       |
| <b>Reconstitution</b> | We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at < -20 centigrade. Further dilutions should be made in appropriate buffered solutions.   |

## GENE INFORMATION

|                        |                                                                                               |
|------------------------|-----------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | TFF3 trefoil factor 3 (intestinal) [ Homo sapiens ]                                           |
| <b>Official Symbol</b> | TFF3                                                                                          |
| <b>Synonyms</b>        | TFF3; trefoil factor 3 (intestinal); trefoil factor 3; HITF; ITF; polypeptide P1.B; P1B; TFI; |
| <b>Gene ID</b>         | 7033                                                                                          |

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|----------------|---------------------------|
| mRNA Refseq    | <a href="#">NM_003226</a> |
| Protein Refseq | <a href="#">NP_003217</a> |
| MIM            | <a href="#">600633</a>    |
| UniProt ID     | <a href="#">Q07654</a>    |

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