

**TFF3**  
Catalog # PVGS1172**Specification**

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**TFF3 - Product Information**Primary Accession [Q07654](#)**Species**  
Human**Sequence**  
Glu22-Phe80**Purity**  
> 95% as analyzed by SDS-PAGE  
> 95% as analyzed by HPLC**Endotoxin Level**  
< 1 EU/ µg of protein by LAL method**Biological Activity**  
Fully biologically active when compared to standard. The ED<sub>50</sub> as determined by a chemotaxis bioassay using human MCF-7 cells is less than 10.0 µg/ml, corresponding to a specific activity of > 100.0 IU/mg.**Expression System**  
E. coli**Theoretical Molecular Weight**  
6.6 kDaFormulation **Lyophilized from a 0.2 µm filtered solution in PBS, pH 7.4.****Reconstitution**  
It is recommended that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute the lyophilized powder in sterile distilled water or aqueous buffer containing 0.1 % BSA to a concentration of 0.1-1.0 mg/ml.**Storage & Stability**  
Upon receiving, this product remains stable for up to 6 months at -70°C or -20°C. Upon reconstitution, the product should be stable for up to 1 week at 4°C or up to 3 months at -20°C. Avoid repeated freeze-thaw cycles.**TFF3 - Additional Information****Gene ID** 7033**Other Names**  
Trefoil factor 3, Intestinal trefoil factor, hITF, Polypeptide P1.B, hP1.B, TFF3, ITF, TFI**Target Background**

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.

### **TFF3 - Protein Information**

**Name** TFF3

**Synonyms** ITF, TFI

#### **Function**

Involved in the maintenance and repair of the intestinal mucosa. Promotes the mobility of epithelial cells in healing processes (motogen).

#### **Cellular Location**

Secreted, extracellular space, extracellular matrix. Cytoplasm

#### **Tissue Location**

Expressed in goblet cells of the intestines and colon (at protein level). Expressed by goblet cells of small and large intestinal epithelia and also by the uterus. Also expressed in the hypothalamus where it is detected in paraventricular, periventricular and supraoptic nuclei (at protein level).

### **TFF3 - Protocols**

Provided below are standard protocols that you may find useful for product applications.

- [Western Blot](#)
- [Blocking Peptides](#)
- [Dot Blot](#)
- [Immunohistochemistry](#)
- [Immunofluorescence](#)
- [Immunoprecipitation](#)
- [Flow Cytometry](#)
- [Cell Culture](#)

### **TFF3 - Images**