

## Recombinant Human TFF3

|                         |   |        |
|-------------------------|---|--------|
| <b>CATALOG #:</b>       | 4746-20   | 20 µg  |
|                         | 4746-100  | 100 µg |
|                         | 4746-1000   | 1 mg   |
| <b>ALTERNATE NAMES:</b> | TFF-3, ITF, TFI, HITF, hP1.B, TFF3, Trefoil factor 3, Intestinal trefoil factor |        |
| <b>LOT #:</b>           | _____   |        |
| <b>SOURCE:</b>          | <i>E. coli</i>  |        |
| <b>PURITY:</b>          | > 97 % by SDS-PAGE and HPLC analyses  |        |
| <b>MOL. WEIGHT:</b>     | 13.2 kDa  |        |
| <b>FORM:</b>            | Sterile filtered white powder lyophilized from a solution containing PBS pH 7.4 |        |

**STORAGE CONDITIONS:** The lyophilized protein is best-stored desiccated at -20°C.

### RECONSTITUTION:

Centrifuge the vial prior to opening. Reconstitute in sterile 18 MΩ-cm H<sub>2</sub>O at not less than 100 µg/ml. Reconstituted TFF3 should be stored in working aliquots at -20°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### DESCRIPTION:

Proteins of the TFF family are characterized by having at least 1 copy of the trefoil motif, a 40-amino acid domain that contains 3 conserved disulfides. Trefoil Factors are stable secretory proteins expressed in gastrointestinal mucosa which protect the mucosa from insults, stabilize the mucus layer and affect healing of the epithelium. TFF3 induces ciliogenesis and promotes airway epithelial ciliated cell differentiation, through an EGFR-dependent pathway. TFF-3 is normally expressed in hepatocellular carcinoma and its overexpression is crucial for progression in mouse and human hepatocellular carcinogenesis. TFF-3 Human Recombinant produced in E.Coli is a homodimeric, non-glycosylated, polypeptide chain containing 2 x 59 amino acid chains which includes a 40 amino acid trefoil motif containing 3 conserved disulfide bonds and has MW = 13.2 kDa. TFF-3 Human Recombinant is purified by proprietary chromatographic techniques.

### AMINO ACID SEQUENCE:

EEYVGLSANQ CAVPAKDRVD CGYPHVPKE CNNRGCCFDS RIPGVPWCFK PLQEAECTF

### BIOACTIVITY:

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

**USAGE:** For Research Use Only. Not to be used in humans.

### RELATED PRODUCTS:

- TFF1, human recombinant
- TFF1, pAb
- TFF2, human recombinant
- TFF1, pAb
- Proteins/Enzymes
- Cytokines & Growth factors
- Antibodies