

## TFF3 Human

**Description:** 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 intermolecular disulfide bonds and having a total molecular mass of 13.2kDa. TFF-3 Human Recombinant is purified by proprietary chromatographic techniques.

**Catalog #:** CYPs-012

For research use only.

**Synonyms:** TFF-3, ITF, TFI, HITF, hP1.B, TFF3, Trefoil factor 3, Intestinal trefoil factor.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered White lyophilized (freeze-dried) powder.

**Amino Acid Sequence:** EEYVGLSANQ CAVPAKDRVD CGYPHVTPKE CNNRGCCFDS  
RIPGVPWCFKPLQEAECTF

**Purity:** Greater than 97.0% as determined by SDS-PAGE.

**Formulation:**

Lyophilized from a 0.2

**Stability:**

Lyophilized TFF3 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution TFF3 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Solubility:**

It is recommended to reconstitute the lyophilized TFF3 in sterile 18M-cm H<sub>2</sub>O not less than 100

**Introduction:**

Proteins of the TFF family are characterized by obtaining a minimum of 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. TFF2 inhibits gastric acid motility & secretion. TFF2 stabilizes glycoproteins in the mucus gel through interactions with carbohydrate side chains. TFF3 induces ciliogenesis and promotes airway epithelial ciliated cell differentiation, relatively through an epidermal growth factor receptor-dependent pathway. TFF3 overexpression is crucial for progression in mouse and human hepatocellular carcinogenesis. TFF-3 is normally expressed in hepatocellular carcinoma and its expression associates with tumor grade.

**Biological Activity:**

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

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