

## TFF3 Human, His

**Description:** TFF3 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 69 amino acids (22-80 a.a.) which includes a 10 amino acid His Tag fused at N-terminus and having a total molecular mass of 7.82 kDa. TFF3 Human Recombinant is purified by proprietary chromatographic techniques.

Catalog #:CYP5-623

For research use only.

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

**Source:** Escherichia Coli.

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

**Amino Acid Sequence:** MKHHHHHHAS EEYVGLSANQ CAVPAKDRVD CGYPHVTPKE  
CNNRGCCFDS RIPGVPWCFK PLQEAECTF.

**Purity:** Greater than 95.0% as by SDS-PAGE.

### Formulation:

The TFF3 protein was lyophilized from 0.4m filtered solution at a concentration of 0.5mg/mL containing 20mM Tris pH-7.5 and 150mM NaCl.

### 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:

Add deionized water to a working concentration approximately 0.5 mg/ml and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by appropriate sterile filter before using it in the cell culture.

### 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.

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