



## Trefoil Factor-2, His Tag, human recombinant (rHuTFF2-His)

**Catalog No:** 08560  
**Lot No:** XXXXX  
**Source:** *E. coli*  
**Synonyms:** TFF-2, Spasmolytic polypeptide, Spasmolysin, SML1, Trefoil factor 2, SP, TFF2

### Background

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.

### Description

TFF-2 human recombinant produced in *E. coli* is a single, non-glycosylated, polypeptide chain containing 116 amino acids (24-129) which includes a 10 amino acid His Tag fused at N-terminus and having a total molecular mass of 13.2 kDa. TFF2 is purified by proprietary chromatographic techniques.

### Physical Appearance

Filtered white lyophilized (freeze-dried) powder.

### Formulation

The TFF2 protein was lyophilized from 0.4 µm filtered solution at a concentration of 0.5 mg/ml containing 20 mM Tris pH 7.5, and 20 mM NaCl.

### Solubility

It is recommended to add deionized water to prepare a working stock solution of approximately 0.5 mg/ml and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it on cell culture.

### Stability

Lyophilized TFF2, although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution TFF2 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.

### Purity

Greater than 95.0% as determined by SDS-PAGE.

### Amino Acid Sequence

MKHHHHHHAS EKPSPCQCSR LSPHNRTNCG FPGITSDQCF DNGCCFDSSV TGVPWCFHPL PKQESDQCV M EVSDRRNCGY  
PGISPEECAS RKCCFSNFIF EVPWCFPPKS VEDCHY

### Usage

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