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## Product Data Sheet

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Product Name: TFF2 Human  
 Cat. No.: GP20937  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped at Room temp.
Synonyms	TFF-2; Spasmolytic polypeptide; Spasmolysin; SML1; Trefoil factor 2; SP; TFF2.		
Amino Acid Sequence	EKSPQCQCSR LSPHNRTNCG FPGITSDQCF DNGCCFDSSV TGVPWCFHPL PKQESDQCVM EVSDRRNCGY PGISPEECAS RKCCFSNFIF EVPWCFFPKSVEDCHY.		
Solubility	It is recommended to reconstitute the lyophilized TFF2 in sterile 18MΩ-cm H <sub>2</sub> O not less than 100μg/ml, which can then be further diluted to other aqueous solutions.		
Formulation	The TFF2 protein was lyophilized from 0.4μm filtered solution at a concentration of 1mg/mL containing 1x PBS pH-7.4.		

### 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.

### Biological Activity

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

### Stability

Lyophilized TFF2 although stable at room temperature for 3 weeks, should be stored

**Caution: Product has not been fully validated for medical applications. For research use only.**

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desiccated below  $-18^{\circ}\text{C}$ . Upon reconstitution TFF2 should be stored at  $4^{\circ}\text{C}$  between 2-7 days and for future use below  $-18^{\circ}\text{C}$ . For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

### Background

TFF-2 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 106 amino acids (24-129) and having a total molecular mass of 12 kDa. TFF2 Human Recombinant includes a 40-amino acid trefoil motif containing three conserved intramolecular disulfide bonds and was purified by proprietary chromatographic techniques.

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