Bioactive

# TFF2 (Human) Recombinant Protein

Catalog # P9196 Size 20 ug

## Specification

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|---|---|
| **Product Description** | Human TFF2 partial recombinant protein expressed in *Escherichia coli*. |
| **Sequence** | EKPSPCQCSRLSPHNRTNCGFPGITSDQCFDNGCCFDSSVTGVPWCFHPLPKQESDQCVMEV SDRRNCGYPGISPEECASRKCCFSNFIFEVPWCFFPKSVEDCHY |
| **Host** | Escherichia coli |
| **Theoretical MW (kDa)** | 12 |
| **Specificity** | TFF2 Human |
| **Form** | Lyophilized |
| **Preparation Method** | *Escherichia coli* expression system |
| **Purification** | chromatographic |
| **Purity** | > 97% as determined by (a) RP-HPLC.(b) SDS-PAGE. |
| **Activity** | Determined by the ability to chemoattract human MCF-7 cells using a concentration 1.0-10.0 ng/mL. |
| **Storage Buffer** | Protein (1 mg/mL) was lyophilized from a solution containing 1X PBS, pH 7.4. Reconstitute the lyophilized powder in dd$H_2O$ to 100 ug/mL. |
| **Storage Instruction** | Lyophilized protein at room temperature for 3 weeks, should be stored at -20°C. Protein aliquots at 4 °C for 2-7 days and should be stored at -20°C to -80°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA).<br>Avoid repeated freeze/thaw cycles. |

## Applications

- Functional Study

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## Gene Info — TFF2

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|---|---|
| **Entrez GeneID** | 7032 |
| **Protein Accession#** | Q03403 |
| **Gene Name** | TFF2 |
| **Gene Alias** | SML1, SP |
| **Gene Description** | trefoil factor 2 |
| **Omim ID** | 182590 |
| **Gene Ontology** | Hyperlink |
| **Gene Summary** | Members of the trefoil family are characterized by having at least one copy of the trefoil motif, a 40 -amino acid domain that contains three conserved disulfides. They are stable secretory proteins e xpressed in gastrointestinal mucosa. Their functions are not defined, but they may protect the muc osa from insults, stabilize the mucus layer and affect healing of the epithelium. The encoded protei n inhibits gastric acid secretion. This gene and two other related trefoil family member genes are f ound in a cluster on chromosome 21. [provided by RefSeq |
| **Other Designations** | spasmolysin\|spasmolytic polypeptide\|spasmolytic protein 1 |

## Disease

- Alzheimer disease
- Cerebral Amyloid Angiopathy
- Genetic Predisposition to Disease
- Neuroblastoma

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