

TFF2 Human

Description: 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.

Catalog #: CYP5-619

For research use only.

Synonyms: TFF-2, Spasmolytic polypeptide, Spasmodysin, SML1, Trefoil factor 2, SP, TFF2.

Source: Escherichia Coli.

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

Amino Acid Sequence: EKPSPCQCSR LSPHNRTNCG FPGITSDQCF DNGCCFDSSV
TGVPCWFHPL PKQESDQCVM EVSDRRNCGY PGISPEECAS RKCCFSNFIF
EVPWCFFPKSVEDCHY.

Purity: Greater than 97.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.

Formulation:

The TFF2 protein was lyophilized from 0.4m filtered solution at a concentration of 1mg/mL containing 1x PBS pH-7.4.

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.

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 TFF2 in sterile 18M-cm H₂O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.

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.

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