

## Trefoil Factor-2 Human Recombinant

<b>Item Number</b>	rAP-0745
<b>Synonyms</b>	TFF-2, Spasmolytic polypeptide, Spasmolysin, SML1, Trefoil factor 2, SP, TFF2.
<b>Description</b>	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
<b>Uniprot Accession Number</b>	Q03403
<b>Amino Acid Sequence</b>	EKPSPCQCSR LSPHNRTNCG FPGITSDQCF DNGCCFDSSV TGVPWCFHPL PKQESDQCVM EVS- DRRNCGY PGISPEECAS RKCCFSNFIF EVPWCFFPKSVEDCHY.
<b>Source</b>	Escherichia Coli.
<b>Physical Appearance and Stability</b>	Sterile Filtered White lyophilized (freeze-dried) powder. 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.
<b>Formulation and Purity</b>	The TFF2 protein was lyophilized from 0.4µm filtered solution at a concentration of 1mg/mL containing 1x PBS pH-7.4. Greater than 97.0% as determined by (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
<b>Application</b>	
<b>Solubility</b>	It is recommended to reconstitute the lyophilized TFF2 in sterile 18MΩ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
<b>Biological Activity</b>	Determined by its ability to chemoattract human MCF-7 cells using a concentration 1.0-10.0 ng/ml.
<b>Shipping Format and Condition</b>	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**