



# Recombinant Human Trefoil factor 2 protein (TFF2) (Active)

<b>Product Code</b>	CSB-AP000351HU
<b>Abbreviation</b>	Recombinant Human TFF2 protein (Active)
<b>Uniprot No.</b>	Q03403
<b>Form</b>	Lyophilized powder
<b>Storage Buffer</b>	Lyophilized from a 0.2 µm filtered 20 mM PB, pH 7.4, 130mM NaCl
<b>Product Type</b>	Other
<b>Immunogen Species</b>	Homo sapiens (Human)
<b>Biological Activity</b>	Fully biologically active when compared to standard. The ED50 as determined by a chemotaxis bioassay using human MCF-7 cells is less than 10 ng/ml, corresponding to a specific activity of $>1.0 \times 10^5$ IU/mg.
<b>Purity</b>	>97% as determined by SDS-PAGE.
<b>Sequence</b>	EKPSPCQCSR LSPHNRTNCG FPGITSDQCF DNGCCFDSSV TGVPWCFHPL PKQESDQCVM EVSDRRNCGY PGISPEECAS RKCCFSNFIF EVPWCFFPKS VEDCHY
<b>Research Area</b>	Cell Biology
<b>Source</b>	E.coli
<b>Target Names</b>	TFF2
<b>Expression Region</b>	24-129aa
<b>Notes</b>	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
<b>Tag Info</b>	Tag-Free
<b>Mol. Weight</b>	12.0 kDa
<b>Protein Length</b>	Full Length of Mature Protein
<b>PubMed ID</b>	2303034; 9070946; 10950923; 15489334

## Image





## Description

Recombinant Human TFF2 is a top-quality, tag-free full-length mature protein that corresponds to the 24-129aa expression region of Trefoil factor 2 (Spasmolysin). Designed specifically for use in cell biology research, this protein is expressed in E. coli and boasts a purity of over 97% as determined by SDS-PAGE and HPLC. Additionally, its endotoxin levels are less than 1.0 EU/μg, as measured by the LAL method, ensuring minimal interference in your experiments.

Recombinant Human TFF2 is fully biologically active, with an ED<sub>50</sub>, as determined by a chemotaxis bioassay using human MCF-7 cells, of less than 10 ng/mL. This corresponds to a specific activity of  $> 1.0 \times 10^5$  IU/mg, showcasing the protein's effectiveness in various research applications. Supplied in a lyophilized powder form, this product offers convenient storage and use across a wide range of experiments.

## Endotoxin

Less than 1.0 EU/μg as determined by LAL method.

## Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

## Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.