

Recombinant Human TFF2,His-tagged

Cat. No. TFF2-1045H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Total 116 AA. MW: 13,2 kDa (calculated). N-Terminal His-tag, 10 extra AA (highlighted).
Species	Human
Source	E.coli
ProteinLength	24-129 a.a.
Description	Trefoil factor 2 is a protein that in humans is encoded by the TFF2 gene. It belongs to the TFF protein family that is characterized by a clover leaf-like disulphide structure named the TFF domain, which is created by 6 cysteines forming three intramolecular bonds. TFF2 contains two trefoil domains and has a very compact structure which may account for its extremely high resistance against the harsh environment in the gastrointestinal tract.
Form	Filtered (0,4 µm) and lyophilized in 0.5 mg/mL in 20mM TRIS, 20mM NaCl, pH 7.5.
Research topic	Energy metabolism and body weight regulation, Immune Response, Infection and Inflammation, Oncology, Sepsis
Purity	>95%
Reconstitution	Add deionized water to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter

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the product by an appropriate sterile filter before using it in the cell culture.

Applications	ELISA; Western blotting
Quality Control Test	BCA to determine quantity of the protein;SDS PAGE to determine purity of the protein;LAL to determine quantity of endotoxin.
Sequences of amino acids	MKHHHHHHAS EKPSPCQCSR LSPHNRTNCG FPGITSDQCF DNGCCFDSSV TGVPWCFHPL PKQESDQCVM EVSDRRNCGY PGISPEECAS RKCCFSNFIF EVPWCFFPKS VEDCHY
Storage	Store lyophilized protein at -20°C. Lyophilized protein remains stable until the expiry date when stored at -20°C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80°C for long term storage. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after one week at 4°C.

GENE INFORMATION

Gene Name	TFF2 trefoil factor 2 [Homo sapiens]
Official Symbol	TFF2
Synonyms	TFF2; trefoil factor 2; SML1; spasmolytic protein 1; Spasmolytic polypeptide; SP; trefoil factor 2, SML1, human spasmolytic polypeptide (SP); spasmolysin; Spasmolysin
Gene ID	7032
mRNA Refseq	NM_005423

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Protein Refseq	NP_005414
MIM	182590
Uniprot ID	Q03403
Chromosome Location	21q22.3

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