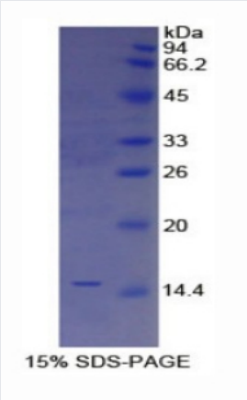
Trefoil Factor 2 (TFF2) Recombinant Protein

PRODUCT OVERVIEW

Product Name	Trefoil Factor 2 (TFF2), Recombinant Protein
Full Product Name	Recombinant Trefoil Factor 2 (TFF2)
Product Gene Name	TFF2 recombinant protein
Sequence	The target protein is fused with N-terminal His-Tag, its sequence is listed below. MGHHHHHHSG SEF-SPCQ CSRLSPHNRT NCGFPGITSD QCFDNGCCFD SSVTGVPWCF HPLPKQESDQ CVMEVSDRRN CGYPGISPEE CASRKCCFSN FIFEVPWCFF PKSVEDCH
Host	E Coli
Form/Format	Supplied as lyophilized form in PBS,pH7.4, containing 5% sucrose, 0.01% sarcosyl.
Purity/Purification	> 95%
Preparation and Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 degree C for one month. Aliquot and store at -80 degree C for 12 months. Stability Test: The thermal stability is described by the loss rate of the targetprotein. The loss rate was determined by accelerated thermal degradation test,that is, incubate the protein at 37 degree C for 48h, and no obvious degradation andprecipitation were observed. (Referring from China Biological Products Standard,which was calculated by the Arrhenius equation.) The loss of this protein is lessthan 5% within the expiration date under appropriate storage condition.
Matching Pairs	Biotin Conjugated Antibody: TFF2 (MBS2005931) Immunogen: TFF2 (MBS2012395)
Matching Pairs	Unconjugated Antibody: TFF2 (MBS2006264) Immunogen: TFF2 (MBS2012395)
Matching Pairs	APC-CY7 Conjugated Antibody: TFF2 (MBS2046833) Immunogen: TFF2 (MBS2012395)
Matching Pairs	PE Conjugated Antibody: TFF2 (MBS2046834) Immunogen: TFF2 (MBS2012395)
Matching Pairs	APC Conjugated Antibody: TFF2 (MBS2046835) Immunogen: TFF2 (MBS2012395)
Matching Pairs	Cy3 Conjugated Antibody: TFF2 (MBS2046836) Immunogen: TFF2 (MBS2012395)
Matching Pairs	FITC Conjugated Antibody: TFF2 (MBS2046837) Immunogen: TFF2 (MBS2012395)
Matching Pairs	HRP Conjugated Antibody: TFF2 (MBS2046838) Immunogen: TFF2 (MBS2012395)
Molecular Weight	13.0kDa
Chromosome Location	Chromosome: 21; NC_000021.8 (43766466..43771208, complement). Location: 21q22.3
OMIM	182590
3D Structure	ModBase 3D Structure for Q03403
Supply Chain Verification	Manufactured in a lab with traceable raw materials. Bulk orders can typically be prepared to the customer's specifications, please inquire.
Organism	Homo sapiens (Human)

Expression System	Prokaryotic expression
Residues	Ser27~His128 (Accession # Q03403) with N-terminal His-Tag
Subcellular Location	Secreted
Endotoxin Level	<1.0EU per 1ug (determined by the LAL method)
Predicted Isoelectric Point	5.9
Reconstitution	Reconstitute in sterile PBS, pH7.2-pH7.4.
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.
Applications Tested/Suitable for TFF2 recombinant protein	SDS-PAGE, Western Blot (WB), ELISA (EIA), Immunoprecipitation (IP)
Related Product Information for TFF2 recombinant protein	MBS2012395 is a recombinant protein targeting TFF2. Also known as Recombinant Trefoil Factor 2 (TFF2). Host: E Coli.
Other Notes	Small volumes of TFF2 recombinant protein vial(s) may occasionally become entrapped in the seal of the product vial during shipment and storage. If necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the container`s cap. Certain products may require to ship with dry ice and additional dry ice fee may apply.



SDS-Page of TFF2 recombinant protein

ADDITIONAL DETAILS

NCBI/Uniprot data below describe general gene information for TFF2. It may not necessarily be applicable to this product.

NCBI GI #	4885629
NCBI GeneID	7032
NCBI Accession #	NP_005414.1
UniProt Primary Accession #	Q03403
UniProt Secondary Accession #	Q15854
UniProt Related Accession #	Q03403
GenBank Nucleotide #	NM_005423.4
NCBI Official Full Name	trefoil factor 2
NCBI Official Synonym Full Names	trefoil factor 2
NCBI Official Symbol	TFF2
NCBI Official Synonym Symbols	SP; SML1
UniProt Protein Name	Trefoil factor 2

UniProt Synonym Protein Names	Spasmolysin; Spasmolytic polypeptide
Protein Family	Trefoil factor
UniProt Gene Name	TFF2
UniProt Synonym Gene Names	SML1; SP
UniProt Entry Name	TFF2_HUMAN
NCBI Protein Information	trefoil factor 2; spasmolysin; spasmolytic protein 1; spasmolytic polypeptide
NCBI Summary for TFF2	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 expressed in gastrointestinal mucosa. Their functions are not defined, but they may protect the mucosa from insults, stabilize the mucus layer and affect healing of the epithelium. The encoded protein inhibits gastric acid secretion. This gene and two other related trefoil family member genes are found in a cluster on chromosome 21. [provided by RefSeq, Jul 2008]
UniProt Comments for TFF2	TFF2: Inhibits gastrointestinal motility and gastric acid secretion. Could function as a structural component of gastric mucus, possibly by stabilizing glycoproteins in the mucus gel through interactions with carbohydrate side chains. Protein type: Secreted, signal peptide; Secreted Chromosomal Location of Human Ortholog: 21q22.3 Cellular Component: extracellular space Molecular Function: protein binding; CXCR4 chemokine receptor binding Biological Process: negative regulation of inflammatory response; digestion; positive regulation of cell proliferation; calcium-mediated signaling; negative regulation of macrophage activation; regulation of cell migration
Research Articles on TFF2	**1.** There is an association between TFF2 and TFF3 polymorphisms and risk of atrophic gastritis and gastric cancer in Chinese people.
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