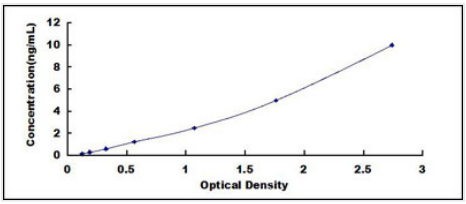
Trefoil Factor 2 (TFF2) ELISA Kit for Mouse

PRODUCT OVERVIEW

Product Name	Trefoil Factor 2 (TFF2), ELISA Kit
Full Product Name	Mouse Trefoil Factor 2 (TFF2) ELISA Kit
Product Gene Name	TFF2 elisa kit
Product Synonym Names	SML1; SP; Spasmolytic Protein 1; Spasmolysin; Spasmolytic polypeptide
Species Reactivity	Mouse
Assay Type	Double-antibody Sandwich
Samples	Serum, Plasma, Tissue homogenates, Cell lysates, Cell culture supernates and other biological fluids
Detection Range	31.2-2,000pg/mL
Sensitivity	12.2pg/mL
Specificity	This assay has high sensitivity and excellent specificity for detection of Trefoil Factor 2 (TFF2). No significant cross-reactivity or interference between Trefoil Factor 2 (TFF2) and analogues was observed.
Preparation and Storage	The stability of kit is determined by the loss rate of activity. The loss rate of this kit is less than 5% within the expiration date under appropriate storage condition. To minimize extra influence on the performance, operation procedures and lab conditions, especially room temperature, air humidity, incubator temperature should be strictly controlled. It is also strongly suggested that the whole assay is performed by the same operator from the beginning to the end.
Molecular Weight	14,284 Da
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.
Application	Enzyme-linked immunosorbent assay for Antigen Detection.
Intra-assay Precision (Precision within an assay)	3 samples with low, middle and high level Trefoil Factor 2 (TFF2) were tested 20 times on one plate, respectively.
Inter-assay Precision (Precision between assays)	3 samples with low, middle and high level Trefoil Factor 2 (TFF2) were tested on 3 different plates, 8 replicates in each plate.
CV(%) =	SD/meanX100
Intra-Assay	CV<10%
Inter-Assay	CV<12%
Product Categories/Family for TFF2 elisa kit	Tumor immunity; Gastroenterology; Dermatology
ISO Certification	Manufactured in an ISO 9001:2015 and ISO 13485:2016 Certified Laboratory.

Related Product Information for TFF2 elisa kit	The test principle applied in this kit is Sandwich enzyme immunoassay. The microtiter plate provided in this kit has been pre-coated with an antibody specific to Trefoil Factor 2 (TFF2). Standards or samples are then added to the appropriate microtiter plate wells with a biotin-conjugated antibody specific to Trefoil Factor 2 (TFF2). Next, Avidin conjugated to Horseradish Peroxidase (HRP) is added to each microplate well and incubated. After TMB substrate solution is added, only those wells that contain Trefoil Factor 2 (TFF2), biotin-conjugated antibody and enzyme-conjugated Avidin will exhibit a change in color. The enzyme-substrate reaction is terminated by the addition of sulphuric acid solution and the color change is measured spectrophotometrically at a wavelength of 450nm ± 10nm. The concentration of Trefoil Factor 2 (TFF2) in the samples is then determined by comparing the O.D. of the samples to the standard curve.
Other Notes	Small volumes of TFF2 elisa kit 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.
Searchable Terms for TFF2 purchase	MBS2023082 is a ready-to-use microwell, strip plate ELISA (enzyme-linked immunosorbent assay) Kit for analyzing the presence of the Trefoil Factor 2 (TFF2) ELISA Kit target analytes in biological samples. The concentration gradients of the kit standards or positive controls render a theoretical kit detection range in biological research samples containing TFF2. The ELISA analytical biochemical technique of the MBS2023082 kit is based on TFF2 antibody-TFF2 antigen interactions (immunosorbency) and an HRP colorimetric detection system to detect TFF2 antigen targets in samples. The ELISA Kit is designed to detect native, not recombinant, TFF2. Appropriate sample types may include undiluted body fluids and/or tissue homogenates, secretions. Quality control assays assessing reproducibility identified the intra-assay CV (%) and inter-assay CV(%).



Typical Testing Data/Standard Curve (for reference only) of TFF2 elisa kit

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; SP
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
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.** The structural features of the N-linked N,N'-di-N-acetyllactosediamine-inducing determinant on human TFF2 are discussed.
Precautions	All of MyBioSource's Products are for scientific laboratory research purposes and are not for diagnostic, therapeutics, prophylactic or in vivo use. Through your purchase, you expressly represent and warrant to MyBioSource that you will properly test and use any Products purchased from MyBioSource in accordance with industry standards. MyBioSource and its authorized distributors reserve the right to refuse to process any order where we reasonably believe that the intended use will fall outside of our acceptable guidelines.
Disclaimer	While every efforts were made to ensure the accuracy of the information provided in this datasheet, MyBioSource will not be liable for any omissions or errors contained herein. MyBioSource reserves the right to make changes to this datasheet at any time without prior notice. It is the responsibility of the customer to report product performance issues to MyBioSource within 30 days of receipt of the product. Please visit our Terms & Conditions page for more information.
Product Note	Select online data sheet information is drawn from bioinformatics databases, occasionally resulting in ambiguous or non-relevant product information. It is the responsibility of the customer to review, verify, and evaluate the information to make sure it matches their requirements before purchasing the kit. Our ELISA Kit assays are dynamic research tools and sometimes they may be updated and improved. If the format of this assay is important to you then please request the current manual or contact our technical support team with a presales inquiry before placing an order. We will confirm the current details of the assay. We cannot guarantee the sample manual posted online is the most current manual, it is intended to serve as an example only. Please refer to the instructions For Use provided with the assay kit for precise details.

For Research Use Only. Not for use in diagnostic or therapeutic procedures.

MyBioSource | Tel: +1.858.633.0165 | Fax: +1.858.633.0166 | mybiosource.com/contact-us
Online datasheet: https://www.mybiosource.com/mouse-elisa-kits/trefoil-factor-2-tff2/2023082