TFF2 Protein, Human (His)

Cat. No.:	HY-P71929A
Synonyms:	SML 1; SML1; SP; Spasmolysin; Spasmolytic polypeptide; spasmolytic protein 1 ; TFF 2; TFF2; TFF2_HUMAN; trefoil factor 2 spasmolytic protein 1; ; Trefoil factor 2; Trefoil factor 2 precursor
Species:	Human
Source:	E. coli
Accession:	Q03403 (E24-Y129)
Gene ID:	7032
Molecular Weight:	Approximately 14 kDa

PROPERTIES

AA Sequence	E K P S P C Q C S R L S P H N R T N C G F P G I T S D Q C F D N G C C F D S S V T G V P W C F H P L P K Q E S D Q C V M E V S D R R N C G Y P G I S P E E C A S R K C C F S N F I F E V P W C F F P K S V E D C H Y
Biological Activity	Measured by its ability to chemoattract bioassay using human MCF-7 cells. The ED_{50} for this effect is 20.9 ng/mL, corresponding to a specific activity is 4.7846×10^4 units/mg.
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.2 μm filtered solution of 50 mM Tris-HCL, 300 mM NaCl, 200 mM arginine, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add a carrier protein (0.1% BSA, 5% HSA, 10% FBS or 5% Trehalose).
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	TFF2 protein plays a regulatory role in the gastrointestinal tract by inhibiting both gastrointestinal motility and gastric acid secretion. Its potential involvement as a structural component in gastric mucus is suggested, wherein it might contribute to the stabilization of glycoproteins within the mucus gel through interactions with carbohydrate side chains. This multifaceted function positions TFF2 as a crucial player in maintaining the integrity and homeostasis of the gastric environment.

Caution: Product has not been fully validated for medical applications. For research use only.

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