

Active Recombinant Human TFF2 Protein (106 aa)

Cat. No. TFF2-049T **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TFF2 Protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	106
Description	The Trefoil Factor peptides (TFF1, TFF2 and TFF3) are expressed in the gastrointestinal tract, and appear to play an important role in intestinal mucosal defense and repair. TFF2 has been shown to inhibit gastrointestinal motility and gastric acid secretion. Recent data suggests a potential role for TFF2 in acute and chronic asthma (Nikolaidis, N.M. et al. Am. Journal Respir. Cell Mol. Biol. (2003) 4: 458-464).
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	Fully biologically active when compared to standard.Determined by its ability to chemoattract human monocytes using a concentration range of 1.0-10.0 µg/mL, corresponding to a Specific Activity of 100 IU/mg.
Molecular Mass	12.0 kDa, a single non-glycosylated polypeptide chain containing 106 amino acids.
AA Sequence	EKPSPQCQSRLSPHNRTNCGFPGITSDQCFDNGCCFDSSVTGVPWCFHPLPKQES DQCVMEVSDRRNCGYPGISPEECASRKCCFSNFIFEVPWCFFPKSVEDCHY

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Endotoxin	Less than 1 EU/μg of rHuTFF-2 as determined by LAL method.
Purity	>97% by SDS-PAGE and HPLC analyses.
Storage	This lyophilized preparation is stable at 2-8 centigrade, but should be kept at -20 centigrade for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8 centigrade. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20 to -70 centigrade. Avoid repeated freeze/thaw cycles.
Storage Buffer	Lyophilized from a 0.2μm filtered concentrated solution in 20mM PB, pH 7.4, 130mM NaCl.
Reconstitution	We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at < -20C. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

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

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Protein Refseq	NP_005414
MIM	182590
UniProt ID	Q03403

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