

Active Recombinant Human TFF3 Protein (59 aa)

Cat. No. TFF3-112T **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TFF3 Protein without tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	59
Description	The Trefoil Factor peptides (TFF1, TFF2 and TFF3) are secreted in the gastrointestinal tract, and appear to play an important role in intestinal mucosal defense and repair. TFF-3 is expressed by goblet cells and in the uterus, and has also been shown to express in certain cancers, including colorectal, hepatocellular, and in biliary tumors. TFF3 may be useful as a molecular marker for certain types of cancer, but its role, if any, in tumorigenesis is unknown. TFF3 also promotes airway epithelial cell migration and differentiation.
Form	Sterile Filtered White lyophilized (freeze-dried) powder.
Bio-activity	Determined by its ability to chemoattract human MCF-7 cells using a concentration range of 1.0-10.0 µg/mL.
Molecular Mass	Approximately 6.5 kDa, a single non-glycosylated polypeptide chain containing 59 amino acids.
AA Sequence	EEYVGLSANQCAVPAKDRVDCGYPHVTPKECNNRGCCFDSRIPGVPWC FKPLQEA

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ECTF	
Endotoxin	Less than 1 EU/μg of rHuTFF3 as determined by LAL method.
Purity	>95% 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 0.2mm filtered concentrated solution in PBS, pH 7.4.
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 < -20 centigrade. Further dilutions should be made in appropriate buffered solutions.

GENE INFORMATION

Gene Name	TFF3 trefoil factor 3 (intestinal) [Homo sapiens]
Official Symbol	TFF3
Synonyms	TFF3; trefoil factor 3 (intestinal); trefoil factor 3; HITF; ITF; polypeptide P1.B; P1B; TFI;
Gene ID	7033

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mRNA Refseq	NM_003226
Protein Refseq	NP_003217
MIM	600633
UniProt ID	Q07654

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