

Recombinant Human TFF3, His-tagged

Cat. No. TFF3-1046H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Total 69 AA. MW: 7.82 kDa (calculated). N-terminal His-tag, 10 extra AA(highlighted).
Species	Human
Source	E.coli
Description	Trefoil factor 3 is a protein that in humans is encoded by the TFF3 gene. Human trefoil factor 3 (TFF3, also known as intestinal trefoil factor) belongs together with TFF1 and TFF2 to a small group of mucin-associated peptides. TFF3 contains seven cysteine residues, six of which form disulfide bonds to create a characteristic three-leafed structure. Due to its compact structure, TFF3 is extremely resistant toward acids, proteolytical cleavage or heat degradation.
Form	Filtered (0.4 µm) and lyophilized from 0.5 mg/ml in 20mM Tris buffer, 150mM NaCl, pH 7.5.
Research topic	Energy metabolism and body weight regulation, Oncology, Renal disease, Sepsis
Purity	>95%
Reconstitution	Add deionized water to prepare a working stock solution of approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely. Product is not sterile! Please filter the product by an appropriate sterile filter before using it in the cell culture.
Applications	Western blotting

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Quality Control Test	BCA to determine quantity of the protein; SDS PAGE to determine purity of the protein.
Sequences of amino acids	MKHHHHHHAS EEYVGLSANQ CAVPAKDRVD CGYPHVTPKE CNNRGCCFDS RIPGVPWCFFK PLQEAECTF
Storage	Store lyophilized protein at -20°C. Lyophilized protein remains stable until the expiry date when stored at -20°C. Aliquot reconstituted protein to avoid repeated freezing/thawing cycles and store at -80°C for long term storage. Reconstituted protein can be stored at 4°C for a limited period of time; it does not show any change after one week at 4°C.

GENE INFORMATION

Gene Name	TFF3 trefoil factor 3 (intestinal) [Homo sapiens]
Official Symbol	TFF3
Synonyms	TFF3; trefoil factor 3 (intestinal); ITF; Polypeptide P1.B; TFI; HITF; trefoil factor 3, HITF, human intestinal trefoil factor; OTTHUMP00000109349; P1B; trefoil factor 3; hITF; hP1.B; Intestinal trefoil factor
Gene ID	7033
mRNA Refseq	NM_003226
Protein Refseq	NP_003217
MIM	600633
Uniprot ID	Q07654

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Chromosome Location	21q22.3
Pathway	HIF-1-alpha transcription factor network, organism-specific biosystem; IL4-mediated signaling events, organism-specific biosystem
Function	molecular_function
ProteinTFF3 PDB 1e9t	