

## Recombinant Human TFF3, His-tagged

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

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
|-------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Total 69 AA. MW: 7.82 kDa (calculated). N-terminal His-tag, 10 extra AA(highlighted).                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Source</b>           | E.coli                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | 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. |
| <b>Form</b>             | Filtered (0.4 µm) and lyophilized from 0.5 mg/ml in 20mM Tris buffer, 150mM NaCl, pH 7.5.                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Research topic</b>   | Energy metabolism and body weight regulation, Oncology, Renal disease, Sepsis                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Purity</b>           | >95%                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Reconstitution</b>   | 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.                                                                                                                                                                                                                      |
| <b>Applications</b>     | Western blotting                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |

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|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Quality Control Test</b>     | BCA to determine quantity of the protein; SDS PAGE to determine purity of the protein.                                                                                                                                                                                                                                                                           |
| <b>Sequences of amino acids</b> | MKHHHHHHAS EEYVGLSANQ CAVPAKDRVD CGYPHVTPKE CNNRGCCFDS<br>RIPGVPWCFFK PLQEAECTF                                                                                                                                                                                                                                                                                  |
| <b>Storage</b>                  | 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. |

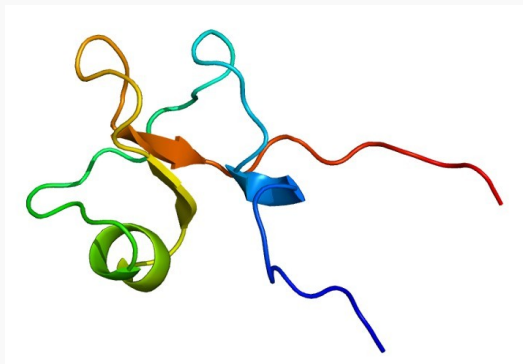
## GENE INFORMATION

|                        |                                                                                                                                                                                                                   |
|------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Gene Name</b>       | TFF3 trefoil factor 3 (intestinal) [ Homo sapiens ]                                                                                                                                                               |
| <b>Official Symbol</b> | TFF3                                                                                                                                                                                                              |
| <b>Synonyms</b>        | 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 |
| <b>Gene ID</b>         | 7033                                                                                                                                                                                                              |
| <b>mRNA Refseq</b>     | NM_003226                                                                                                                                                                                                         |
| <b>Protein Refseq</b>  | NP_003217                                                                                                                                                                                                         |
| <b>MIM</b>             | 600633                                                                                                                                                                                                            |
| <b>Uniprot ID</b>      | Q07654                                                                                                                                                                                                            |

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