

TFF3

Recombinant Human Trefoil Factor 3

Catalog No. CRT189A Quantity: 5 μg

CRT189B 20 μg CRT189C 1.0 mg

Alternate Names: TFF-3, TFI, HITF, hP1.B, ITF, Intestinal Trefoil Factor

Description: Members of the Trefoil family are characterized by having at least one copy of the Trefoil

motif, a 40-amino acid domain that contains three conserved disulfides. Trefoil Factors (TFF1, TFF2 and TFF3) are stable secretory proteins expressed in gastrointestinal mucosa. Their functions are not well-defined, but they may protect the mucosa from insults, stabilize the mucus layer and affect healing of the epithelium. Trefoil Factor 1 (TFF1) is essential for normal differentiation of the antral and pyloric gastric mucosa and functions as a gastric-specific tumor suppressor gene. Trefoil Factor 2 (TFF2) inhibits gastric acid motility and secretion. TFF2 stabilizes glycoproteins in the mucus gel through interactions with carbohydrate side chains. Trefoil Factor 3 (TFF3) is expressed in goblet cells of the intestines and colon. TFF3 induces ciliogenesis and promotes airway epithelial ciliated cell differentiation, relatively through an Epidermal Growth Factor

Receptor (EGFR)-dependent pathway. TFF3 overexpression is crucial for progression in Mouse and Human hepatocellular carcinogenesis. TFF-3 is normally expressed in hepatocellular carcinoma and its expression associates with tumor grade. The three

Trefoil Factor genes are found in a cluster on chromosome 21.

Recombinant Human TFF3 is a single, non-glycosylated polypeptide chain containing 69 amino acids (22-80 aa) which includes a 10 amino acid His Tag fused at N-terminus.

 Gene ID:
 7033

 Source:
 E.coli

 Molecular Weight:
 7.82 kDa

Formulation: Lyophilized filtered solution containing 20 mM Tris pH 7.5 + 150 mM NaCl.

Purity: >95% by SDS-PAGE

Amino Acid Sequence: MKHHHHHHAS EEYVGLSANQ CAVPAKDRVD CGYPHVTPKE CNNRGCCFDS

RIPGVPWCFK PLQEAECTF

Reconstitution: Centrifuge vial prior to opening. Add deionized water to a working concentration

approximately 0.5 mg/mL and let the lyophilized pellet dissolve completely.

PRODUCT IS NOT STERILE! Please filter the product by appropriate sterile filter before

using it in the cell culture.

Storage & Stability: Stable at room temperature for 3 weeks, best stored desiccated below -20°C. After

reconstitution, store at 4°C no more than 1 week or -20°C for longer term. For long term

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storage it is recommended to add a carrier protein (0.1% HSA or BSA).

Avoid repeated freeze-thaw cycles.

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