

Recombinant Rat Tff3 protein, Flag-tagged

Cat. No. TFF3-6030R **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Rat Tff3 fused with a 9 a.a C-terminal fusion of Flag-Tag (1 aa N-terminal+8 aa C-terminal) was expressed in E. coli.
Species	Rat
Source	E.coli
ProteinLength	68 amino acid residues
Description	Proteins of the TFF family are characterized by obtaining a minimum of 1 copy of the trefoil motif, a 40-amino acid domain that contains 3 conserved disulfides. Trefoil Factors are stable secretory proteins expressed in gastrointestinal mucosa which protect the mucosa from insults, stabilize the mucus layer and affect healing of the epithelium. TFF2 inhibits gastric acid motility & secretion. TFF2 stabilizes glycoproteins in the mucus gel through interactions with carbohydrate side chains. TFF3 induces ciliogenesis and promotes airway epithelial ciliated cell differentiation, relatively through an epidermal growth factor receptor-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.
Form	TFF3 protein filtered (0.4µm) and lyophilized in 0.5mg/ml in 20mM TRIS and 50mM NaCl, pH 7.5.
Molecular Mass	7.7kDa

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AA Sequence	MQEFVGLSPS QCMVPANVRV DCGYPTVTSE QCNNRGCCFD SSIPNVPWCF KPLQETECT F DYKDDDDK.
Purity	Purity as determined by densitometric image analysis is greater than 95%.
Stability	Store lyophilized protein at -20 centigrade. Aliquot the product after reconstitution to avoid repeated freezing/thawing cycles. Reconstituted protein can be stored at 4 centigrade for a limited period of time; it does not show any change after two weeks at 4 centigrade.
Reconstitution	It is recommended to add 200μdeionized 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.

GENE INFORMATION

Gene Name	Tff3 trefoil factor 3, intestinal [<i>Rattus norvegicus</i>]
Official Symbol	Tff3
Synonyms	TFF3; trefoil factor 3, intestinal; trefoil factor 3; rITF; rP1.B; polypeptide P1.B; intestinal trefoil factor; Trefoil factor (intestinal); ITF; TREFOIL;
Gene ID	25563
mRNA Refseq	NM_013042
Protein Refseq	NP_037174
MIM	

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UniProt ID	Q62395
Chromosome Location	17 A3.3; 17 15.8 cM