

Active Recombinant Full Length Human TFF1 protein, Tag Free

Cat. No. TFF1-244H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human TFF1 protein was expressed in Escherichia coli.
Species	Human
Source	E.coli
ProteinLength	1-84 a.a.
Description	Trefoil factor 1 belongs to the trefoil factor family that consists of three members named TFF1, TFF2 and TFF3. They are characterized by having at least one copy of the trefoil motif, a 40-amino acid domain that contains three conserved disulfides. The TFFs are stable secretory proteins expressed highly in the gastrointestinal tract (gastric mucosa). TFF1 is an essential protein for normal differentiation of the antral and pyloric gastric mucosa and functions as a stabilizer of the mucous gel overlying the gastrointestinal mucosa that provides a physical barrier against various noxious agents. It is studied because of commonly expressed in tumors as well.
Form	Lyophilized from a 0.2µm filtered concentrated solution in 20 mM PB, pH 7.4, 150mM NaCl.
Bio-activity	Fully biologically active when compared to standard. The ED50 as determined by a chemotaxis bioassay using human MCF-7 cells is less than 10 µg/ml, corresponding to a specific activity of 100 IU/mg.

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Molecular Mass	Approximately 13.2 kDa, a homodimer consisting of two 60 amino acid polypeptide chains, which includes a 40-amino acid trefoil motif containing three conserved intramolecular disulfide bonds.
AA Sequence	EAQTETCTVAPRERQNCGFPGVTPSQCANKGCCFDDTVRGVPWCFYPNTIDVPPE EECEF
Endotoxin	Less than 1 EU/g of rHuTFF1 as determined by LAL method.
Purity	>97% by SDS-PAGE and HPLC analysis.
Storage	Use a manual defrost freezer and avoid repeated freeze-thaw cycles. 12 months from date of receipt, -20 to -70 centigrade as supplied. 1 month, 2 to 8 centigrade under sterile conditions after reconstitution. 3 months, -20 to -70 centigrade under sterile conditions after reconstitution.
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	TFF1
Official Symbol	TFF1
Synonyms	TFF1; trefoil factor 1; BCEI, breast cancer, estrogen inducible sequence expressed in; D21S21; HP1.A; HPS2; pNR 2; pS2; protein pS2; polypeptide P1.A; gastrointestinal trefoil protein pS2; breast cancer estrogen-inducible protein; breast

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cancer estrogen-inducible sequence; BCEI; pNR-2;

Gene ID 7031

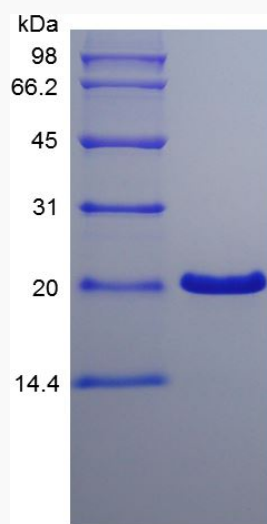
mRNA Refseq NM_003225

Protein Refseq NP_003216

MIM 113710

UniProt ID P04155

SDS-PAGE of TFF1-244H



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