

Trefoil Factor-1 Active Protein | TFF1 active protein

Recombinant Human Trefoil Factor-1

CATALOG #
AAA38601

HOST
E Coli

PRODUCT SYNONYMS

Trefoil Factor-1; Recombinant Human Trefoil Factor-1; TFF1 Human; Trefoil Factor-1 Human Recombinant; TFF-1; TFF1; pS2; BCEI; HPS; HP1.A; pNR-2; D21S21; pS2 protein; Trefoil factor 1; Breast cancer estrogen-inducible protein; TFF1 active protein

PRODUCT SPECIFICATIONS

Host	E Coli
Purity/Purification	Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.
Form/Format	The protein was lyophilized after dialysis against 1xPBS pH-7.4. Sterile Filtered White lyophilized (freeze-dried) powder.
Sequence	EAQTETCTVA PRERQNCGFP GVTPSQCAN K GCCFDDTVRG VPWCFYPNTI DVPPEEECEF
Sequence Length	84
Solubility	It is recommended to reconstitute the lyophilized TFF1 in sterile 18M Omega -cm H2O not less than 100 ug/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	Determined by its ability to activate ERK1/2 (a MAPkinase signaling molecule) using a concentration 1,000-2,000ng/ml corresponding to a specific activity of 500-1,000IU/mg.
Preparation and Storage	Lyophilized TFF1 although stable at room temperature for 3 weeks, should be stored desiccated below -18 degree C. Upon reconstitution TFF1 should be stored at 4 degree C between 2-7 days and for future use below -18 degree C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.

ADDITIONAL INFORMATION

Related Product Information for TFF1 active protein	Description: TFF-1 Human Recombinant produced in E Coli is a homodimer, non-glycosylated, polypeptide chain containing 2 x 60 amino acids which includes a 40 amino acid trefoil motif containing 3 conserved interamolecular disulfide bonds and having a total molecular mass of 13.2 kDa. TFF-1 Human Recombinant is purified by proprietary chromatographic techniques. Introduction: The Trefoil Factor peptides (TFF1, TFF2 and TFF3) are stable secretory proteins expressed in the gastrointestinal tract (gastric mucosa), and are involved in intestinal mucosal defense and repair. TFF1 is an essential protein for normal differentiation of the antral and pyloric gastric mucosa and functions as a gastric-specific tumor suppressor gene. TFF1 is a stabilizer of the mucous gel overlying the gastrointestinal mucosa that provides a physical barrier against various noxious agents. TFF1 protects the mucosa from insults, stabilizes the mucus layer, & affects healing of the epithelium. TFF1 is commonly expressed in tumors. TFF1 is related with the cell membrane of MCF-7 cells. High levels of TFF1 and TFF2 are found in serum from inflammatory bowel disease.
Product Categories/Family for TFF1 active protein	Cytokines and Growth Factors; Cytokines; Trefoil Factor

NCBI AND UNIPROT INFORMATION

NCBI GI #	4507451
NCBI GeneID	7031

NCBI Accession #	NP_003216.1
NCBI GenBank Nucleotide #	NM_003225.2
UniProt Accession #	P04155
Molecular Weight	9,150 Da
NCBI Official Full Name	trefoil factor 1
NCBI Official Synonym Full Names	trefoil factor 1
NCBI Official Symbol	TFF1
NCBI Official Synonym Symbols	pS2; BCEI; HPS2; HP1.A; pNR-2; D21S21
NCBI Protein Information	trefoil factor 1; breast cancer estrogen-inducible protein; breast cancer estrogen-inducible sequence; gastrointestinal trefoil protein pS2; polypeptide P1.A
UniProt Protein Name	Trefoil factor 1
UniProt Gene Name	TFF1
UniProt Synonym Gene Names	BCEI; PS2; hP1.A
UniProt Entry Name	TFF1_HUMAN

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/e-coli-tff1-active-protein/trefoil-factor-1/38601>