9051 Mira Mesa Blvd, #910094
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TFF1 Human

Trefoil Factor-1 Human Recombinant
CYK0541

Product Overview

Name	TFF1 Human
Description	
Trefoil Factor-1 Human Recombinant	
Accession (Primary)	P04155
Synonyms	
TFF-1, TFF1, pS2, BCEI, HPS, HP1.A, pNR-2, D21S21, pS2 protein, Trefoil factor 1, Breast cancer estrogen-inducible protein.	
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 isults, 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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered White lyophilized (freeze-dried) powder.	
Formulation	
The Human TFF1 protein was lyophilized from a 0.2 μm filtered concentrated solution in 20mM PB, pH 7.4 and 150mM NaCl.	
Stability	
Lyophilized TFF1 although stable at room temperature for 3 weeks, should be stored desiccated below -18°C. Upon reconstitution TFF1 should be stored at 4°C between 2-7 days and for future use below -18°C. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Please prevent freeze-thaw cycles.	
Purity	
Greater than 97.0% as determined by: (a) Analysis by RP-HPLC. (b) Analysis by SDS-PAGE.	

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Amino acid sequence

EAQTETCTVAPRERQNCGFPGVTPSQCANKGCCFDDTVRGVPWCFY PNTIDVPPEEECEF.

Biological Activity

The ED 50 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.

Solubility

It is recommended to reconstitute the lyophilized TFF1 in sterile 18MΩ-cm H2O not less than 100 µg/ml, which can then be further diluted to other aqueous solutions.

Precautions

TFF1 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (P04155)