

TFF1

Recombinant Human Trefoil Factor 1

Catalog No.	CRT154A CRT154B CRT154C	Quantity:	5 µg 20 µg 1.0 mg
Alternate Names:	BCEI, D21S21, HP1.A, HPS2, pNR-2, pS2, breast cancer estrogen-inducible sequence, gastrointestinal trefoil protein pS2		
Gene ID:	7031		
Description:	The Trefoil Factor peptides (TFF1, TFF2 and TFF3) are expressed in the gastrointestinal tract, and appear to play an important role in intestinal mucosal defense and repair. TFF1 is essential for normal differentiation of the antral and pyloric gastric mucosa and functions as a gastric-specific tumor suppressor gene.		
Physical Appearance:	Sterile Filtered White lyophilized (freeze-dried) powder.		
Source:	<i>E. coli</i>		
Molecular Weight:	Approximately 6.7 kDa, containing 60 amino acids, which includes a 40-amino acid trefoil motif containing three conserved intramolecular disulfide bonds.		
Formulation:	Lyophilized from a 0.2 µm filtered solution in 20 mM PBS, pH 7.4 + 150 mM NaCl.		
Purity:	> 97% as determined by SDS-PAGE and HPLC analyses		
Endotoxin Level:	Less than 1EU/µg of rHuTFF1 as determined by LAL method.		
Biological Activity:	Fully biologically active when compared to standard. The ED ₅₀ determined by a chemotaxis bioassay using human MCF-7 cells is less than 10000 ng/ml.		
Amino Acid Sequence:	EAQTETCTVA PRERQNCGFP GVTPSQCANK GCCFDDTVRG VPWCFYPNTI DVPPEEECEF		
Reconstitution:	Centrifuge vial prior to opening. Add sterile distilled water or aqueous buffer to a concentration of 0.1-1.0 mg/mL. Further dilutions should be made in appropriate buffered solutions.		
Storage & Stability:	Stable at 2-8°C, but best kept desiccated -20°C. Upon reconstitution, stable for up to 1 week at 2-8°C. For longer term, store in working aliquots below -20°C. Avoid repeated freeze/thaw cycles.		

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