

Trefoil Factor-1 Human Recombinant

Item Number	rAP-0742
Synonyms	TFF-1, TFF1, pS2, BCE1, HPS, HP1.A, pNR-2, D21S21, pS2 protein, Trefoil factor 1, Breast cancer estrogen-inducible 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 intramolecular disulfide bonds and having a total molecular mass of 13.2 kDa. TFF-1 Human Recombinant is purified
Uniprot Accession Number	P04155
Amino Acid Sequence	EAQTETCTVAPRERQNCGFPGVTPSQCANKGCCFDDTVRGVPWCFYPNTIDVPPEEECEF.
Source	Escherichia Coli.
Physical Appearance and Stability	Sterile Filtered White lyophilized (freeze-dried) powder. 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.
Formulation and Purity	The Human TFF1 protein was lyophilized from a 0.2µm filtered concentrated solution in 20mM PB, pH 7.4 and 150mM NaCl. Greater than 97.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Application	
Solubility	It is recommended to reconstitute the lyophilized TFF1 in sterile 18MΩ-cm H2O not less than 100µg/ml, which can then be further diluted to other aqueous solutions.
Biological Activity	The ED50 as determined by a chemotaxis bioassay using human MCF-7 cells is less than 10µg/ml, corresponding to a specific activity of >100 IU/mg.
Shipping Format and Condition	Lyophilized powder at room temperature.

Optimal dilutions should be determined by each laboratory for each application. The listed dilutions are for recommendation only and the final conditions should be optimized by the ender users! This product is sold for **Research Use Only**