

Human TFF1 Recombinant Protein



RPPB0960

Product Information Protein Information

Product SKU:

RPPB0960

Accession:

P04155

Host:

Escherichia Coli.

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 by proprietary chromatographic techniques.

Appearance:

Sterile Filtered White lyophilized (freeze-dried) powder.

Synonyms:

TFF-1, TFF1, pS2, BCE1, HPS, HP1.A, pNR-2, D21S21, pS2 protein, Trefoil factor 1, Breast cancer estrogen-inducible protein.

Formulation:

The Human TFF1 protein was lyophilized from a 0.2µm filtered concentrated solution in 20mM PB, pH 7.4 and 150mM NaCl.

Purity:

Greater than 97.0% as determined by:(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.

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.

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.

Amino Acid Sequence:

EAQTETCTVAPRERQNCGFPGVTPSQCANKGCCFDDTVRGVPWCFYPNTIDVPPEEECEF.

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.