

Human TreFoil Factor-1 / TFF-1

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

PLEASE NOTE: ALWAYS CENTRIFUGE VIAL BEFORE OPENING

Size	Order #	Lot #	Expiry Date
5 µg	1925.950.005		
20 µg	1925.950.020		
1 mg	1925.950.199		

Please enquire for bulk quantities and other vial sizes

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.

- **Biological Activity** ≥ 100 IU/mg
- **Source** *E. Coli*
- **Purity** ≥ 97 % (SDS-PAGE, RP-HPLC)
- **Endotoxin level** ≤ 0.1ng/µg (≤ 1EU/µg)
- **Buffer** The Human TFF1 protein was lyophilized from a 0.2µm filtered concentrated solution in 20mM PB, pH 7.4 and 150mM NaCl*
- **Physical state** Sterile filtered, lyophilized

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.

Reconstitution

We recommend a quick spin followed by reconstitution in sterile water to a concentration of at least 100 µg/ml, which can then be further diluted to other aqueous solutions. Do not vortex.

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 avoid repeated freeze-thaw cycles.**

Amino Acid Sequence

EAQTETCTVA PRERQNCGFP GVTPSQCANK GCCFDDTVRG VPWCFYPNTI DVPPEEECEF

Usage: For research use only. Not for use in diagnostic or therapeutic procedures. Not for human use.

*The Buffer may vary depending on the Lot #. Please contact our technical support if you have specific requirements.

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