

## TPT1 Human

**Description:** TPT1 Human Recombinant produced in E.Coli is a single, non-glycosylated, polypeptide chain containing 210 amino acids (1-172 a.a.) and having a molecular mass of 23.9 kDa. TPT1 is fused to a 38 amino acid His-Tag at N-Terminus and purified by proprietary chromatographic techniques.

Catalog #: PRPS-783

For research use only.

**Synonyms:** TCTP, Fortilin, Histamine-Releasing Factor, Translationally-controlled tumor protein, p23, HRF, Fortilin, p02, FLJ27337, TPT1.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile filtered colorless solution.

**Amino Acid Sequence:** MRGSHHHHHH GMASMTGGQQ MGRDLYDDDD KDRWGSHMMI  
IYRDLISHDE MFSDIYKIRE IADGLCLEVE GKMVSRTEGN IDDSLIGGNA SAEGPEGEGT  
ESTVITGVDI VMNHHLQETS FTKEAYKKYI KDYMKSIGK LEEQRPERVK PFMTGAAEQI  
KHILANFKNY QFFIGENMNP DGMVALLDYR EDGVTPYMIF FKDGLEMEKC.

**Purity:** Greater than 90% as determined by SDS-PAGE.

**Formulation:**

TPT1 solution containing 20mM Tris-HCl pH-8, 0.1M NaCl and 10% glycerol.

**Stability:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. They may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

TPT1 takes part in calcium binding and microtubule stabilization. TPT1 is an immunoglobulin E dependent histamine-releasing factor produced by lymphocytes of atopic children and present in biologic fluids of allergic patients. TPT1 protein is similar to p23, a protein of Ehrlich ascites tumor cells, synthesized in the exponentially growing tumor. TPT1 is similar with IgE-dependent histamine releasing factor. TPT1 has a cell housekeeping function. TPT1 is involved in spermatogenesis and acts as a calcium binding protein of the human placenta that regulates calcium handling in trophoblast cells.

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