

# Recombinant Human Thiamine Triphosphatase, His-tagged

**Cat. No.** THTPA-786H    **Lot. No.** (See product label)

## SPECIFICATION

|                                 |   |
|---------------------------------|---|
| <b>Product Overview</b>         | Recombinant human THTPA protein, fused to His-tag at N-terminus, was expressed in <i>E.coli</i> and purified by using conventional chromatography techniques. MW = 27.7 kDa (250aa) confirmed by MALDI-TOF (Real molecular weight on SDS-PAGE will be shift up).  |
| <b>Species</b>                  | Human   |
| <b>Source</b>                   | E.coli  |
| <b>Description</b>              | THTPA, also known as THTP or THTPASE, is a member of the THTPase family. This protein is localized to the cytoplasm and expressed at low levels in a variety of tissues, including testis, uterus, prostate, bladder, lung and kidney. THTPA is a hydrolase that catalyzes the H <sub>2</sub> O-dependent hydrolysis of thiamine triphosphate (THTP) to thiamine diphosphate (THDP), the major form of thiamine within the cell. THTPA exists as a monomer and functions at an optimal pH of 8.5. |
| <b>Sequences Of Amino Acids</b> | MGSSHHHHHH SSGLVPRGSH MAQGLIEVER KFLPGPGTEE RLQELGGTLE<br>YRVTFRDYY DTPELSLMQA DHWLRRREDS GWELKCPGAA GVLGPHTEYK<br>ELTAEPTIVA QLCKVLRADG LGAGDVA AVL GPLGLQEVAS FVTKRSAWKL<br>VLLGADEEEP QLRVDLDTAD FGYAVGEVEA LVHEEA EVPT ALEKIHLSS<br>MLGVPAQETA PAKLIVYLQR FRPQDYQRLLEVNSSRERPQ ETEDPDHCLG   |
| <b>Purity</b>                   | > 90% by SDS – PAGE.  |
| <b>Form</b>                     | Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 1mM DTT.   |

 Tel: 1-631-559-9269    1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)     Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

**Concentration** 1 mg/ml (determined by Bradford assay).

**Storage** Can be stored at +4°C short term (1-2 weeks). For long term storage, aliquot and store at -20°C or -70°C. Avoid repeated freezing and thawing cycles.

## GENE INFORMATION

**Gene Name** [THTPA thiamine triphosphatase \[ Homo sapiens \]](#)

**Synonyms** THTPA; thiamine triphosphatase; THTP; MGC2652; THTPASE; thiamine-triphosphatase; EC 3.6.1.28

**Gene ID** [79178](#)

**mRNA Refseq** [NM\\_001126339](#)

**Protein Refseq** [NP\\_001119811](#)

**MIM** [611612](#)

**UniProt ID** [Q9BU02](#)

**Chromosome Location** 14q11.2

**Pathway** Metabolic pathways; Thiamine metabolism

**Function** adenylate cyclase activity; hydrolase activity; thiamin-triphosphatase activity

 Tel: 1-631-559-9269 1-516-512-3133

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA