

AR09614PU-N

Human Thiamine-triphosphatase (THTPA) (1-230, His-tag) - Purified

Alternate names: ThTPase

Quantity: 0.1 mg

Concentration: 1.0 mg/ml (determined by Bradford assay)

Background: 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 H₂O-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.

Uniprot ID: [Q9BU02](#)

NCBI: [NP_001119811](#)

GeneID: [79178](#)

Species: Human

Source: E. coli

Format: **State:** Liquid purified protein

Purity: >90% by SDS – PAGE

Buffer System: 20 mM Tris-HCl buffer (pH 8.0) containing 10% glycerol, 1 mM DTT

Description: Recombinant human THTPA protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.

AA Sequence:

MGSSHHHHHH SSGLVPRGSH MAQGLIEVER KFLPGPGTEE RLQELGGTLE YRVTFRDYYY
DTPELSLMQA DHWLRRRREDS GWELKCPGAA GVLGPHTEYK ELTAEPTIVA QLCKVLRADG
LGAGDVA AVL GPLGLQEVAS FVTKRSAWKL VLLGADEEEP QLRVDLDTAD FGYAVGEVEA
LVHEEA EVPT ALEKIHLRLSS MLGVPAQETA PAKLIVYLQR FRPQDYQRLLEVNSSRERPQ
ETEDPDHCLG

Molecular weight: 27.7 kDa (250aa) confirmed by MALDI-TOF (Real molecular weight on SDS-PAGE will be shift up).

Storage: Store undiluted at 2-8°C for up to two weeks or (in aliquots) at -20°C or -70°C for longer.

Avoid repeated freezing and thawing.

Shelf life: one year from despatch.

General Readings: Lakaye B., et al. (2002) J Biol Chem. 277(16):13771-7.

Lakaye B., et al. (2004) Int J Biochem Cell Biol. 36(7):1348-64.

Pictures:

Recombinant human THTPA, 1-230 aa,
His-tagged

