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# **Recombinant human THTPA protein**

Catalog Number: ATGP0676

#### **PRODUCT INFORMATION**

# **Expression system**

E.coli

#### **Domain**

1-230aa

#### **UniProt No.**

O9BU02

# **NCBI Accession No.**

NP 001119811

### **Alternative Names**

Thiamine-triphosphatase, MGC2652, THTP, THTPASE, Thiamine-triphosphatase

## **PRODUCT SPECIFICATION**

## **Molecular Weight**

27.7 kDa (250aa) confirmed by MALDI-TOF (Molecular weight on SDS-PAGE will appear higher)

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 1mM DTT

#### **Purity**

> 90% by SDS-PAGE

#### Tag

His-Tag

## **Application**

SDS-PAGE

# **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

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



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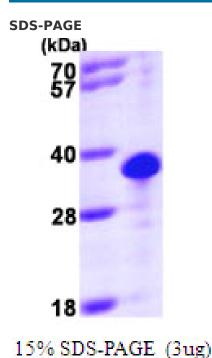
# **Amino acid Sequence**

MGSSHHHHHH SSGLVPRGSH MAQGLIEVER KFLPGPGTEE RLQELGGTLE YRVTFRDTYY DTPELSLMQA DHWLRRREDS GWELKCPGAA GVLGPHTEYK ELTAEPTIVA QLCKVLRADG LGAGDVAAVL GPLGLQEVAS FVTKRSAWKL VLLGADEEP QLRVDLDTAD FGYAVGEVEA LVHEEAEVPT ALEKIHRLSS MLGVPAQETA PAKLIVYLQR FRPQDYQRLL EVNSSRERPQ ETEDPDHCLG

#### **General References**

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.

# **DATA**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

