

Recombinant human THTPA protein

Catalog Number: ATGP0676

PRODUCT INFORMATION

Expression system

E.coli

Domain

1-230aa

UniProt No.

Q9BU02

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 SSSLVPRGSH MAQGLIEVER KFLPGPGTEE RLQELGGTLE YRVTFRDITY DTPELSLMQA DHWLRREDS
GWELKCPGAA GVLGPHTEYK ELTAEPTIVA QLCKVLRADG LGAGDVA AVL GPLGLQEVAS FVTKRSAWKL VLLGADEEEP
QLRVDLDTAD FGYAVGEVEA LVHEEA EVPT ALEKIHRLSS MLGVPAQETA PAKLIVYLQR FRPQDYQRL EVNSSRERPO
ETEDPDHCLG

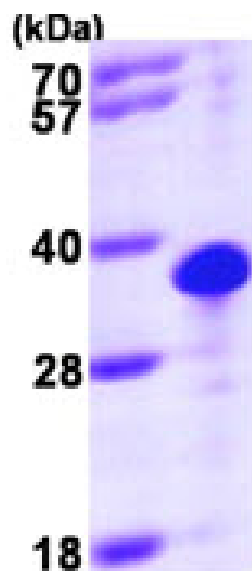
General References

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

SDS-PAGE



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

15% SDS-PAGE (3ug)