

Recombinant Human Thiamine Triphosphatase, His-tagged

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

SPECIFICATION

Product Overview	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).
Species	Human
Source	E.coli
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 H ₂ 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.
Sequences Of Amino Acids	MGSSHHHHHH SSGLVPRGSH MAQGLIEVER KFLPGPGTEE RLQELGGTLE YRVTFRDITYY DTPELSLMQA DHWLRREDS GWELKCPGAA GVLGPHTTEYK ELTAEPTIVA QLCKVLRADG LGAGDVA AVL GPLGLQEVAS FVTKRSAWKL VLLGADEEEP QLRVDLDTAD FGYAVGEVEA LVHEEA EVPT ALEKIHRLSS MLGVPAQETA PAKLIVYLQR FRPQDYQRLLEVNSSRERPQ ETEDPDHCLG
Purity	> 90% by SDS – PAGE.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 10% glycerol 1mM DTT.

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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