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## Product Data Sheet

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Product Name: THTPA Human  
 Cat. No.: GP22295  
 Batch No.: 1

### Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	MGC2652; THTP; THTPASE.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MAQGLIEVER KFLPGPGTEE RLQELGGTLE YRVTFRDTYY DPELSLMQA DHWLRRREDS GWELKCPGAA GVLGPHTTEYK ELTAEPTIVA QLCKVLRADG LGAGDVAAVL GPLGLQEVAS FVTKRSAWKL VLLGADEEEP QLRVDLDTAD FGYAVGEVEA LVHEEA EVPT ALEKIHRLSS MLGVPAQETA PAKLIVYLQR FRPQDYQRLLEVNSSRERPQ ETEDPDHCLG.		
Formulation	The THTPA 1mg/ml protein solution contains 20mM Tris-HCL buffer, pH-8, 1mM DTT and 10% Glycerol.		

### Introduction

THTPA enzyme is part of the THTPase family. THTPA is localized to the cytoplasm and expressed at small quantities 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 main form of thiamine within the cell. THTPA occurs as a monomer and is activated at an optimal pH of 8.5.

### Stability

Store THTPA at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

### Background

Recombinant Human THTPA produced in E.Coli is a single, non-glycosylated polypeptide chain containing 250 amino acids (1-230 a.a.) and having a molecular mass of 27.7 kDa. THTPA is fused to a 20 amino acid His-Tag at N-Terminus and purified by conventional

**Caution: Product has not been fully validated for medical applications. For research use only.**

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chromatography techniques.

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