

THTPA, 1-230aa, Human, His tag, E.coli

Cat.NO.: TP04210

3th Edition

Synonyms:MGC2652, THTP, THTPASE, Thiamine-triphosphatase

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.

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

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

Sequences:

MGSSHHHHHSSGLVPRGSHMAQGLIEVERKFLPGPGTEERLQELGGTLEYRVTFRDITYYDTPELSLMQADHWL
RRREDSGWELKCPGAAGVLPHTTEYKELTAEPTIVAQLCKVLRADGLGAGDVAAVLGPLGLQEVASFVTKRSAWK
LVLLGADEEPPQLRVDLDTADFGYAVGEVEALVHEEAHVPTALEKIHRLSSMLGVPAQETAPAKLIVYLQRFQDY
QRLLEVNSSRERPQETEDPDHCLG

Purity:> 95% by HPLC

Concentration:1 mg/ml (determined by Bradford assay)

Endotoxin Level:<1.0 EU per 1 ug of protein (determined by LAL method)

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.