

THTPA Human

Description: 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 chromatography techniques.

Catalog #: ENPS-256

For research use only.

Synonyms: MGC2652, THTP, THTPASE.

Source: Escherichia Coli.

Physical Appearance: Sterile filtered colorless solution.

Amino Acid Sequence: MGSSHHHHHH SSGLVPRGSH MAQGLIEVER KFLPGPGTEE
RLQELGGTLE YRVTFRDITY DPELSLMQA DHWLRRREDS GWELKCPGAA GVLGPHTYK
ELTAEPTIVA QLCKVLRADG LGAGDVAVL GPLGLQEVAS FVTKRSAWKL VLLGADEEEP
QLRVDLDTAD FGYAVGEVEA LVHEEAEPVPT ALEKIHRLSS MLGVPAQETA PAKLIVYLQR
FRPDYQRLL EV

Purity: Greater than 90.0% as determined by SDS-PAGE.

Formulation:

The THTPA 1mg/ml protein solution contains 20mM Tris-HCL buffer, pH-8, 1mM DTT and 10% Glycerol.

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.

Usage:

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

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 H₂O-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.

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