

## THAP1 Human

**Description:** THAP1 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 237 amino acids (1-213 a.a) and having a molecular mass of 27.5kDa. THAP1 is fused to a 24 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #: PRPS-1096

For research use only.

**Synonyms:** THAP domain-containing protein 1, THAP1, DYT6.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MGSHMVQSCS AYGCKNRYDK  
DKPVSFHKFP LTRPSLCKEW EAAVRRKNFK PTKYSSICSE HFTPDCFKRE CNNKLLKENA  
VPTIFLCTEP HDKKEDLLEP QEQLPPPPLP PVSQVDAAI GLLMPPLQTP VNLSVFC DHN  
YTVEDTMHQR KRIHQLEQQV EKLKRLKTA QQRCCRQERQ LEKLKEVVHF QKEKDDVSER  
GYVILPNDYF EI

**Purity:** Greater than 85.0% as determined by SDS-PAGE.

**Formulation:**

THAP1 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 2M Urea, 10% glycerol, 1mM DTT and 0.2M NaCl.

**Stability:**

Store 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:**

THAP domain-containing protein 1 (THAP1) is a 213 amino acid protein which is restricted to the nucleoplasm and contains one THAP type zinc finger, a conserved DNA-binding domain. THAP1 is a DNA-binding transcription regulator which regulates endothelial cell proliferation and G1/S cell-cycle progression. In addition, THAP1 has a pro-apoptotic activity by potentiating both serum-withdrawal and TNF-induced apoptosis. THAP1 protein colocalizes with the apoptosis response protein PAWR/PAR-4 in promyelocytic leukemia (PML) nuclear bodies, and serves as a proapoptotic factor which connects PAWR to PML nuclear bodies.

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