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# Recombinant human THG1L protein

Catalog Number: ATGP1668

#### PRODUCT INFORMATION

### **Expression system**

E.coli

#### **Domain**

30-298aa

#### UniProt No.

O9NWX6

#### **NCBI Accession No.**

NP 060342

#### **Alternative Names**

Probable tRNA (His) guanylyltransferase, ICF45

## PRODUCT SPECIFICATION

#### **Molecular Weight**

34 kDa (292aa) confirmed by MALDI-TOF

#### Concentration

0.5mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.1M NaCl, 20% glycerol,1mM DTT

#### **Purity**

> 90% by SDS-PAGE

#### Tag

His-Tag

### **Application**

SDS-PAGE

## **Storage Condition**

Can be stored at +2C to +8C for 1 week. For long term storage, aliquot and store at -20C to -80C. Avoid repeated freezing and thawing cycles.

#### **BACKGROUND**

#### **Description**

Probable tRNA (His) guanylyltransferase, also known as THG1L, belongs to the tRNA (His) gyanylytransferase family. Localized to the cytoplasm, THG1L is also found near the nuclear membrane and is expressed in many tissues, including liver and lung. upon DNA damage, THG1L is phosphorylated, most likely by ATM or ATR. It is expressed in a cell cycle-dependent manner and may be involved in cell cycle progression and cell proliferation. Recombinant human THG1L protein, fused to His-tag at N-terminus, was expressed in E. coli and purified by using conventional chromatography techniques.



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# **Amino acid Sequence**

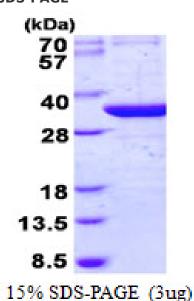
MGSSHHHHHH SSGLVPRGSH MGSMAKSKFE YVRDFEADDT CLAHCWVVVR LDGRNFHRFA EKHNFAKPND SRALQLMTKC AQTVMEELED IVIAYGQSDE YSFVFKRKTN WFKRRASKFM THVASQFASS YVFYWRDYFE DQPLLYPPGF DGRVVVYPSN QTLKDYLSWR QADCHINNLY NTVFWALIQQ SGLTPVQAQG RLQGTLAADK NEILFSEFNI NYNNELPMYR KGTVLIWQKV DEVMTKEIKL PTEMEGKKMA VTRTRTKPVP LHCDIIGDAF WKEHPEILDE DS

#### **General References**

Guo D., et al. (2004) J Biol Chem. 279(51): 53498-505.

# **DATA**

#### **SDS-PAGE**



3ug by SDS-PAGE under reducing condition and visualized by coomassie blue stain.

