

Recombinant human THG1L protein

Catalog Number: ATGP1668

PRODUCT INFORMATION

Expression system

E.coli

Domain

30-298aa

UniProt No.

Q9NWX6

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) guanylyltransferase 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

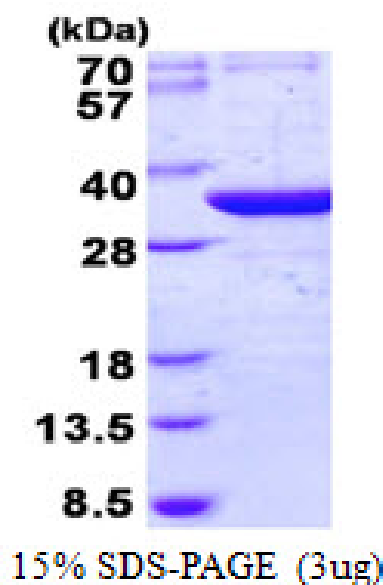
MGSSHHHHHH SSGLVPRGSH MGSMASKFE YVRDFEADD T CLAHCWVVVR LDGRNFHRFA EKHNFAKPND
SRALQLMTKC AQTVMEELED IVIAYQSDE YSFVFKRKTN WFKRRASKFM THVASQFASS YVFYWRDYFE DQPLLYPPGF
DGRVVVYPSN QTLKDYLWR QADCHINNLY NTVFWALIQQ SGLTPVQAQG RLQGTLAADK NEILFSEFNI NYNNELPMYR
KGTVLIWQKV DEVMTKEIKL PTEMEGKKMA VTRTRTKPVP LHCDIIGDAF 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.