

THG1L, 30-298aa, Human, His tag, E.coli

Cat.NO.: TP04202

3th Edition

Synonyms:Probable tRNA (His) guanylyltransferase, ICF45

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.

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

Molecular Weight:34 kDa (292aa), confirmed by MALDI-TOF

Sequences:

MGSSHHHHHSSGLVPRGSHMGSMASKFEYVRDFEADDTCLAHCWVVRLDGRNFHRFAEKHNFAKPNDSTRA
LQLMTKCAQTVMEELEDIVIAYGQSDEYSFVFKRKTNWFKRRASKFMTHVASQFASSYVFYWRDYFEDQPLLYPP
GFDGRVVVYPSNQLKDYLSWRQADCHINNLYNTVFWALIQQSGLTPVQAQGRLLQGTLAADKNEILFSEFNINYN
ELPMYRKGTVLIWQKVDEVMTKEIKLPTEMEGKKMAVTRTRTKPVPLHCDIIGDAFWKEHPEILDEDS

Purity:> 95% by HPLC

Concentration:0.5 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.