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# Recombinant human TYW5 protein

Catalog Number: ATGP1851

#### PRODUCT INFORMATION

### **Expression system**

E.coli

#### **Domain**

1-315aa

#### UniProt No.

A2RUC4

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

NP 001034782

#### **Alternative Names**

tRNA wybutosine-synthesizing protein 5, C2orf60, Htyw5

# PRODUCT SPECIFICATION

### **Molecular Weight**

38.9 kDa (338aa) confirmed by MALDI-TOF

#### Concentration

1mg/ml (determined by Bradford assay)

#### **Formulation**

Liquid in. 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT

#### **Purity**

> 95% 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**

tRNA wybutosine-synthesizing protein 5, also known as TYW5, acts as a component of the wybutosine biosynthesis pathway. Wybutosine is a hyper modified guanosine with a tricyclic base found at the 3'-position adjacent to the anticodon of eukaryotic phenylalanine tRNA. TYW5 catalyzes the hydroxylation of 7- (a-amino-acarboxypropyl) wyosine (yW-72) into undermodified hydroxywybutosine (OHyW). OHyW is a derivative of wybutosine found in higher eukaryotes. Recombinant human TYW5 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**

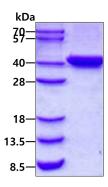
<MGSSHHHHHH SSGLVPRGSH MGS>MAGQHLP VPRLEGVSRE QFMQHLYPQR KPLVLEGIDL GPCTSKWTVD YLSQVGGKKE VKIHVAAVAQ MDFISKNFVY RTLPFDQLVQ RAAEEKHKEF FVSEDEKYYL RSLGEDPRKD VADIRKQFPL LKGDIKFPEF FKEEQFFSSV FRISSPGLQL WTHYDVMDNL LIQVTGKKRV VLFSPRDAQY LYLKGTKSEV LNIDNPDLAK YPLFSKARRY ECSLEAGDVL FIPALWFHNV ISEEFGVGVN IFWKHLPSEC YDKTDTYGNK DPTAASRAAQ ILDRALKTLA ELPEEYRDFY ARRMVLHIQD KAYSKNSE

#### **General References**

Noma A., et al. (2010) J. Biol. Chem. 285:34503-34507 Kato M., et al. (2011) Nucleic Acids Res. 39:1576-1585

# **DATA**

# **SDS-PAGE**



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

