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-a-carboxypropyl) 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.

Recombinant human TYW5 protein

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Amino acid Sequence

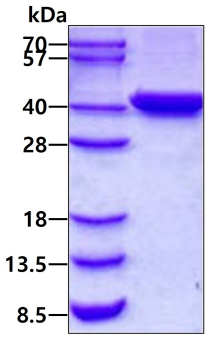
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General References

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.