

Product information

TYW5, 1-315aa

Human, His-tagged, Recombinant, *E.coli*

Cat. No. IBATGP1851

Full name: tRNA wybutosine-synthesizing protein 5

NCBI Accession No.: NP_001034782

Synonyms: C2orf60, hTYW5

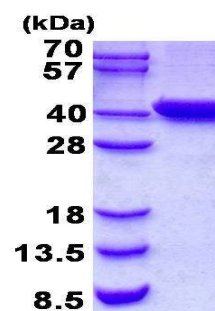
Description: tRNA wybutosine-synthesizing protein 5, also known as TYW5, acts as a component of the wybutosine biosynthesis pathway. Wybutosine is a hyper modified guanosine with a tricyclic base found at the 3'-position adjacent to the anticodon of eukaryotic phenylalanine tRNA. TYW5 catalyzes the hydroxylation of 7-(α -amino- α -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.

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

Molecular Weight: 38.9kDa (338aa), confirmed by MALDI-TOF

Purity: > 95% by SDS - PAGE

Concentration: 1 mg/ml (determined by Bradford assay)



15% SDS-PAGE (3 μ g)

Sequences of amino acids:

MGSSHHHHH SSGLVPRGSH MGSMAQQLP VPRLEGVSRE QFMQHLYPQR KPLVLEGIDL GPCTSKWTV D YLSQVGGKKE VKIHVAVAQ
MDFISKNFVY RTLPFDQLVQ RAAEEKHKEF FVSEDEKYYL RSLGEDPRKD VADIRKQFPL LKGDIKFPEF FKEEQFFSSV FRISSPGLQL
WTHYDVMNL LIQVTGKKRV VLFSPRDAQY LYLGKTKSEV LNIDNPDLAK YPLFSKARRY ECSLEAGDVL FIPALWFHNV ISEEFVGGVN
IFWKHLPSEC YDKTDTYGNK DPTAASRAAQ ILDRALKTLA ELPEEYRDFY ARPMVLHIQD 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

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.

For research use only. This product is not intended or approved for human, diagnostics or veterinary use.



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