

Recombinant Human TYW5, His-tagged

Cat. No. TYW5-7069H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant human TYW5 protein, fused to His-tag at N-terminus, was expressed in E.coli and purified by using conventional chromatography techniques.
Species	Human
Source	E.coli
ProteinLength	1-315aa
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)wybutosine (yW-72) into undermodified hydroxywybutosine (OHyW). OHyW is a derivative of wybutosine found in higher eukaryotes.
Form	Liquid. In 20mM Tris-HCl buffer (pH 8.0) containing 0.15M NaCl, 10% glycerol, 1mM DTT
Molecular Mass	38.9kDa (338aa)
AA Sequence	MGSSHHHHHH SSGLVPRGSH MGSMAGQHLP VPRLEGVSRE QFMQHLYPQR KPLVLEGIDL GPCTSKWTVD YLSQVGGKKE VKIHVAAVAQ MDFISKNFVY RTLFPDQLVQ RAAEEKHKEF FVSEDEKYLL RSLGEDPRKD VADIRKQFPL LKGDIKFPEF FKEEQFFSSV FRISSPGLQL WTHYDVMDNL LIQVTGKKRV

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VLFSRDAQY LYLKGTKSEV LNIDNPDLAK YPLFSKARRY ECSLEAGDVL
FIPALWFHNV ISEFGVGVN IFWKHLPSEC YDKTDTYGNK DPTAASRAAQ
ILDRALKTLA ELPEEYRDFY ARRMVLHIQD KAYSKNSE

Purity >95% by SDS - PAGE

Applications SDS-PAGE

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.

Concentration 1 mg/ml

GENE INFORMATION

Gene Name TYW5 tRNA-yW synthesizing protein 5 [Homo sapiens]

Official Symbol TYW5

Synonyms TYW5; tRNA-yW synthesizing protein 5; C2orf60, chromosome 2 open reading frame 60; tRNA wybutosine-synthesizing protein 5; FLJ37953; tRNA yW-synthesizing enzyme 5; jmjC domain-containing protein C2orf60; hTYW5; C2orf60; MGC70509;

Gene ID [129450](#)

mRNA Refseq [NM_001039693](#)

Protein Refseq [NP_001034782](#)

UniProt ID [A2RUC4](#)

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**Chromosome
Location**

2q33.1

Function

iron ion binding; metal ion binding; oxidoreductase activity; oxidoreductase activity, acting on paired donors, with incorporation or reduction of molecular oxygen, 2-oxoglutarate as one donor, and incorporation of one atom each of oxygen into both donors; oxidoreductase activity, acting on single donors with incorporation of molecular oxygen, incorporation of two atoms of oxygen; protein homodimerization activity; tRNA binding;

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