

## TYW5 Human

**Description:** TYW5 Human Recombinant produced in E.Coli is a single, non-glycosylated polypeptide chain containing 338 amino acids (1-315 a.a.) and having a molecular mass of 38.9kDa. TYW5 is fused to a 23 amino acid His-tag at N-terminus & purified by proprietary chromatographic techniques.

Catalog #: PRPS-1322

For research use only.

**Synonyms:** tRNA wybutosine-synthesizing protein 5, hTYW5, TYW5, C2orf60.

**Source:** Escherichia Coli.

**Physical Appearance:** Sterile Filtered colorless solution.

**Amino Acid Sequence:** MGSSHHHHHH SSGLVPRGSH MGSMAGQHLP VPRLEGVSRE  
QFMQHLYPQR KPLVLEGIDL GPCTSKWTVD YLSQVGGKKE VKIHVAVAQ MDFISKNFVY  
RTLPHDQLVQ RAAEEKHKEF FVSEDEKYYL RSLGEDPRKD VADIRKQFPL LKGDIKFPEF  
FKEEQFFSSV FRISSPGLQL WTHYDVMNDL LIQVTGKKRV VLFSPRDAQY LYLKGTKSEV  
LNIDNPLAK YP

**Purity:** Greater than 95.0% as determined by SDS-PAGE.

**Formulation:**

TYW5 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.

**Stability:**

Store at 4°C if entire vial will be used within 2-4 weeks. Store, frozen at -20°C for longer periods of time. For long term storage it is recommended to add a carrier protein (0.1% HSA or BSA). Avoid multiple freeze-thaw cycles.

**Usage:**

NeoBiolab's products are furnished for LABORATORY RESEARCH USE ONLY. The product may not be used as drugs, agricultural or pesticidal products, food additives or household chemicals.

**Introduction:**

tRNA wybutosine-synthesizing protein 5 (TYW5) functions as a component of the wybutosine biosynthesis pathway. Wybutosine is a hyper modified guanosine with a tricyclic base found at the 3'-position closest 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 observed in higher eukaryotes.

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