
Product Data Sheet

Product Name: TYW5 Human

Cat. No.: GP24931

Batch No.: 1

Product Data

Purity	>98%	Source	Escherichia Coli.
Physical Appearance	solid	Shipping Condition	Shipped with Ice Packs.
Synonyms	tRNA wybutosine-synthesizing protein 5; hTYW5; TYW5; C2orf60.		
Amino Acid Sequence	MGSSHHHHHH SGLVPRGSH MGSMAGQHLP VPRLEGVSRE QFMQHLYPQR KPLVLEGIDL GPCTSKWTV D YLSQVGGKKE VKIHVAAVAQ MDFISKNFVY RTLPFDQLVQ RAAEEKHKEF FVSEDEKYYL RSLGEDPRKD VADIRKQFPL LKGDIKFPEF FKEEQFFSSV FRISSPGLQL WTHYDVM DNL LIQVTGKKRV VLFSPRDAQY LYKGTKSEV LNIDNPDLAK YPLFSKARRY ECSLEAGDVL FIPALWFHNV ISEFGVGVN IFWKHLPSEC YDKTDTYGNK DPTAASRAAQ ILDRALKTLA ELPEEYRDFY ARRMVLHIQD KAYSKNSE.		
Formulation	TYW5 protein solution (1mg/ml) containing 20mM Tris-HCl buffer (pH 8.0), 0.15M NaCl, 10% glycerol and 1mM DTT.		

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-(α -amino- α -carboxypropyl)wyosine (yW-72) into undermodified hydroxywybutosine (OHyW). OHyW is a derivative of wybutosine observed in higher eukaryotes.

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.

Background

Caution: Product has not been fully validated for medical applications. For research use only.

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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.

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