9051 Mira Mesa Blvd, #910094
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TYW5 Human

tRNA-yW Synthesizing Protein 5 Human Recombinant
RCP2487

Product Overview

Name	TYW5 Human
Description	
tRNA-yW Synthesizing Protein 5 Human Recombinant	
Accession (Primary)	A2RUC4
Synonyms	
tRNA wybutosine-synthesizing protein 5, hTYW5, TYW5, C2orf60.	
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.	
Source	
Escherichia Coli.	
Physical Appearance	
Sterile Filtered colorless solution.	
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.	
Purity	
Greater than 95.0% as determined by SDS-PAGE.	
Amino acid sequence	
MGSSHHHHHH SSGLVPRGSH MGS MAGQHLP VPRLEGVSRE QFMQHLYPQR KPLVLEGIDL GPCTSKWTVD YLSQVGGKKE VKIHVAAVAQ MDFISKNFVY RTLPFDQLVQ RAAEEKHKEF FVSEDEKYYL RSLGEDPRKD VADIRKQFPL LKGDIKFPEF FKEEQFFSSV FRISSPGLQL WTHYDVMDNL LIQVTGKKRV VLFSPRDAQY LYLKGTKSEV LNIDNPDLAK YPLFSKARRY ECSLEAGDVL FIPALWFHNV ISEEFGVGVN IFWKHLPSEC YDKTDTYGNK DPTAASRAAQ ILDRALKTLA ELPEEYRDFY ARRMVLHIQD KAYSKNSE.	

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Precautions

TYW5 Human is for research use only and not for use in diagnostic or therapeutic procedures.

Target Information: (A2RUC4)