

Datasheet for ABIN7555917

## TYW1 Protein (AA 1-732) (His tag)



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### Overview

Quantity:	1 mg
Target:	TYW1
Protein Characteristics:	AA 1-732
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This TYW1 protein is labelled with His tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Purpose:	Custom-made recombinat TYW1 Protein expressed in mammalian cells.
Sequence:	<p>MDPSADTWDL FSPLISLWIN RFYIYLGFAV SISLWICVQI VIKTQGKNLQ EKSVPKAAQD</p> <p>LMTNGYVSLQ EKDIFVSGVK IFYGSQTGTA KGFATVLAEA VTSLDLPVAI INLKEYDPDD</p> <p>HLIEEVTSKN VCVFLVATYT DGLPTESA EW FCKWLEEASI DFRFGKTYLK GMRYAVFGLG</p> <p>NSAYASHFNK VGKNVDKWLW MLGAHRVMSR GEGDCDVVKS KHGSIEADFR AWKTKFISQL</p> <p>QALQKGERKK SCGGHCKKGK CESHQHGSEE REEGSHEQDE LHHRDTEEEE PFESSSEEEF</p> <p>GGEDHQLSNS IVDVEDLGKI MDHVKKEKRE KEQQUEEKSL FRNMGRNEDG ERRAMITPAL</p> <p>REALTKQGYQ LIGSHSGVKL CRWTKSMLRG RGGCYKHTFY GIESHRCMET TPSLACANKC</p> <p>VFCWRHHTNP VGTEWRWKMD QPEMILKEAI ENHQNMKQF KGVPGVKAER FEEGMTVKHC</p> <p>ALSLVGEPIM YPEINRFLKL LHQCKISSFL VTNAQFPAEI RNLEPVTQLY VSVDASTKDS</p> <p>LKKIDRPLFK DFWQRFLDSL KALAVKQRT VYRLTLVKA NVDELQAYA QLVSLGNPDFI</p> <p>EVKGVTYCGE SSASSLTMAH VPWHEEVVQF VHELVDLIPE YEIACEHEHS NCLLIAHRKF</p>

KIGGEWWTWI DYNRFQELIQ EYEDSGGSKT FSAKDYMART PHWALFGASE RGFDPKDTRH  
QRKNKSKAIS GC **Sequence without tag. The proposed Purification-Tag is based on experiences with the expression system, a different complexity of the protein could make another tag necessary. In case you have a special request, please contact us.**

Characteristics:	<p>Key Benefits:</p> <ul style="list-style-type: none"><li>• Made to order protein - from design to production - by highly experienced protein experts.</li><li>• Protein expressed in mammalian cells and purified in one-step affinity chromatography</li><li>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li><li>• State-of-the-art algorithm used for plasmid design (Gene synthesis).</li></ul> <p>This protein is a made-to-order protein and will be made for the first time for your order. Our experts in the lab try to ensure that you receive soluble protein.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>The big advantage of ordering our made-to-order proteins in comparison to ordering custom made proteins from other companies is that there is no financial obligation in case the protein cannot be expressed or purified.</p>
Purity:	> 90 % as determined by Bis-Tris Page, Western Blot
Grade:	custom-made

Target Details

Target:	TYW1
Alternative Name:	TYW1 ( <a href="#">TYW1 Products</a> )
Background:	<p>S-adenosyl-L-methionine-dependent tRNA 4-demethylwyosine synthase TYW1 (EC 4.1.3.44) (Radical S-adenosyl methionine and flavodoxin domain-containing protein 1) (tRNA wybutosine-synthesizing protein 1 homolog) (tRNA-yW-synthesizing protein),FUNCTION: Probable 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. Catalyzes the condensation of N-methylguanine with 2 carbon atoms from pyruvate to form the tricyclic 4-demethylwyosine, an intermediate in wybutosine biosynthesis (By similarity). {ECO:0000250}.</p>
Molecular Weight:	83.7 kDa

## Target Details

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UniProt: [Q9NV66](#)

## Application Details

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Application Notes: In addition to the applications listed above we expect the protein to work for functional studies as well. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.

Restrictions: For Research Use only

## Handling

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Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months