Datasheet for ABIN3096355

WWP1 Protein (AA 1-922) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	WWP1
Protein Characteristics:	AA 1-922
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This WWP1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MATASPRSDT SNNHSGRLQL QVTVSSAKLK RKKNWFGTAI YTEVVVDGEI TKTAKSSSSS NPKWDEQLTV NVTPQTTLEF QVWSHRTLKA DALLGKATID LKQALLIHNR KLERVKEQLK LSLENKNGIA QTGELTVVLD GLVIEQENIT NCSSSPTIEI QENGDALHEN GEPSARTTAR LAVEGTNGID NHVPTSTLVQ NSCCSYVVNG DNTPSSPSQV AARPKNTPAP KPLASEPADD TVNGESSSFA PTDNASVTGT PVVSEENALS PNCTSTTVED PPVQEILTSS ENNECIPSTS AELESEARSI LEPDTSNSRS SSAFEAAKSR QPDGCMDPVR QQSGNANTET LPSGWEQRKD PHGRTYYVDH NTRTTTWERP QPLPPGWERR VDDRRRVYYV DHNTRTTTWQ RPTMESVRNF EQWQSQRNQL QGAMQQFNQR YLYSASMLAA ENDPYGPLPP GWEKRVDSTD RVYFVNHNTK TTQWEDPRTQ GLQNEEPLPE GWEIRYTREG VRYFVDHNTR TTTFKDPRNG KSSVTKGGPQ IAYERGFRWK LAHFRYLCQS NALPSHVKIN VSRQTLFEDS FQQIMALKPY DLRRRLYVIF RGEEGLDYGG LAREWFFLLS HEVLNPMYCL FEYAGKNNYC LQINPASTIN PDHLSYFCFI

GRFIAMALFH GKFIDTGFSL PFYKRMLSKK LTIKDLESID TEFYNSLIWI RDNNIEECGL EMYFSVDMEI LGKVTSHDLK LGGSNILVTE ENKDEYIGLM TEWRFSRGVQ EQTKAFLDGF NEVVPLQWLQ YFDEKELEVM LCGMQEVDLA DWQRNTVYRH YTRNSKQIIW FWQFVKETDN EVRMRLLQFV TGTCRLPLGG FAELMGSNGP QKFCIEKVGK DTWLPRSHTC FNRLDLPPYK SYEQLKEKLL FAIEETEGFG QE

Sequence without tag. The proposed Strep-Tag is based on experience s 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:

Key Benefits:

- Made in Germany - from design to production - by highly experienced protein experts.
- Protein expressed with ALiCE® and purified in one-step affinity chromatography
- These proteins are normally active (enzymatically functional) as our customers have reported (not tested by us and not guaranteed).
- State-of-the-art algorithm used for plasmid design (Gene synthesis).

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.

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.

Expression System:

- ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications.
- During lysate production, the cell wall and other cellular components that are not required for protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!

Concentration:

- The concentration of our recombinant proteins is measured using the absorbance at 280nm.
- The protein's absorbance will be measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Product Details

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (AliCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	WWP1
Alternative Name:	WWP1 (WWP1 Products)
Background:	NEDD4-like E3 ubiquitin-protein ligase WWP1 (EC 2.3.2.26) (Atrophin-1-interacting protein 5) (AIP5) (HECT-type E3 ubiquitin transferase WWP1) (TGIF-interacting ubiquitin ligase 1) (Tiul1) (WW domain-containing protein 1),FUNCTION: E3 ubiquitin-protein ligase which accepts ubiquitin from an E2 ubiquitin-conjugating enzyme in the form of a thioester and then directly transfers the ubiquitin to targeted substrates. Ubiquitinates ERBB4 isoforms JM-A CYT-1 and JM-B CYT-1, KLF2, KLF5 and TP63 and promotes their proteasomal degradation. Ubiquitinates RNF11 without targeting it for degradation. Ubiquitinates and promotes degradation of TGFBR1, the ubiquitination is enhanced by SMAD7. Ubiquitinates SMAD6 and SMAD7. Ubiquitinates and promotes degradation of SMAD2 in response to TGF-beta signaling, which requires interaction with TGIF. {ECO:0000269|PubMed:12535537, ECO:0000269|PubMed:15221015, ECO:0000269|PubMed:15359284}.
Molecular Weight:	105.2 kDa
UniProt:	Q9H0M0

Application Details

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.
Comment:	ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from Nicotiana tabacum c.v.. This contains all the protein expression machinery needed to produce even the most difficult-to-express proteins, including those that require post-translational modifications. During lysate production, the cell wall and other cellular components that are not required for

Application Details

	protein production are removed, leaving only the protein production machinery and the mitochondria to drive the reaction. During our lysate completion steps, the additional components needed for protein production (amino acids, cofactors, etc.) are added to produce something that functions like a cell, but without the constraints of a living system - all that's needed is the DNA that codes for the desired protein!
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months