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UBE2W Protein (AA 1-151) (Strep Tag)



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Quantity:	1 mg
Target:	UBE2W
Protein Characteristics:	AA 1-151
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This UBE2W protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MASMQKRLQK ELLALQNDPP PGMTLNEKSV QNSITQWIVD MEGAPGTLYE GEKFQLLFKF

SSRYPFDSPQ VMFTGENIPV HPHVYSNGHI CLSILTEDWS PALSVQSVCL SIISMLSSCK

EKRRPPDNSF YVRTCNKNPK KTKWWYHDDT C

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 by multi-step, protein-specific process to ensure correct folding and modification.
- 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 will ensure that you receive a correctly folded 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 posttranslational 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 in several dilutions and is measured against its specific reference buffer.
- We use the Expasy's ProtParam tool to determine the absorption coefficient of each protein.

Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®):		
	 Protein containing fractions of the best purification are subjected to second purification step through size exclusion chromatography. Eluate fractions are analyzed by SDS-PAGE and Western blot. 		
Purity:	>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.		
Endotoxin Level:	Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)		
Grade:	Crystallography grade		

Target Details

Target:	UBE2W	
Alternative Name:	UBE2W (UBE2W Products)	
Background:	Ubiquitin-conjugating enzyme E2 W (EC 2.3.2.23) (E2 ubiquitin-conjugating enzyme W) (N-	
	terminal E2 ubiquitin-conjugating enzyme) (EC 2.3.2.25) (N-terminus-conjugating E2) (Ubiquitin	
	carrier protein W) (Ubiquitin-conjugating enzyme 16) (UBC-16) (Ubiquitin-protein ligase	
	W),FUNCTION: Accepts ubiquitin from the E1 complex and catalyzes its covalent attachment to	
	other proteins (PubMed:20061386, PubMed:21229326). Specifically monoubiquitinates the N-	
	terminus of various substrates, including ATXN3, MAPT/TAU, POLR2H/RPB8 and STUB1/CHIF	
	by recognizing backbone atoms of disordered N-termini (PubMed:23560854,	
	PubMed:23696636, PubMed:25436519). Involved in degradation of misfolded chaperone	
	substrates by mediating monoubiquitination of STUB1/CHIP, leading to recruitment of ATXN3	
	to monoubiquitinated STUB1/CHIP, and restriction of the length of ubiquitin chain attached to	
	STUB1/CHIP substrates by ATXN3. After UV irradiation, but not after mitomycin-C (MMC)	
	treatment, acts as a specific E2 ubiquitin-conjugating enzyme for the Fanconi anemia complex	
	by associating with E3 ubiquitin-protein ligase FANCL and catalyzing monoubiquitination of	
	FANCD2, a key step in the DNA damage pathway (PubMed:19111657, PubMed:21229326). In	
	vitro catalyzes 'Lys-11'-linked polyubiquitination. UBE2W-catalyzed ubiquitination occurs also in	
	the presence of inactive RING/U-box type E3s, i.e. lacking the active site cysteine residues to	
	form thioester bonds with ubiquitin, or even in the absence of E3, albeit at a slower rate	
	(PubMed:25436519). {ECO:0000269 PubMed:19111657, ECO:0000269 PubMed:20061386,	
	ECO:0000269 PubMed:21229326, ECO:0000269 PubMed:23560854,	
	ECO:0000269 PubMed:23696636, ECO:0000269 PubMed:25436519}.	
Molecular Weight:	17.3 kDa	
UniProt:	Q96B02	
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 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. If you have a special request, please contact us.	
Handling Advice:	Avoid repeated freeze-thaw cycles.	
Storage:	-80 °C	
Storage Comment:	Store at -80°C.	
Expiry Date:	Unlimited (if stored properly)	

Images

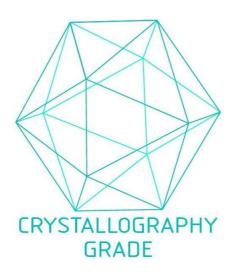


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process