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Datasheet for ABIN3075156 UFD1L Protein (AA 1-307) (Strep Tag)

Image



Overview

Quantity:	1 mg
Target:	UFD1L
Protein Characteristics:	AA 1-307
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This UFD1L protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MFSFNMFDHP IPRVFQNRFS TQYRCFSVSM LAGPNDRSDV EKGGKIIMPP SALDQLSRLN
	ITYPMLFKLT NKNSDRMTHC GVLEFVADEG ICYLPHWMMQ NLLLEEGGLV QVESVNLQVA
	TYSKFQPQSP DFLDITNPKA VLENALRNFA CLTTGDVIAI NYNEKIYELR VMETKPDKAV
	SIIECDMNVD FDAPLGYKEP ERQVQHEEST EGEADHSGYA GELGFRAFSG SGNRLDGKKK
	GVEPSPSPIK PGDIKRGIPN YEFKLGKITF IRNSRPLVKK VEEDEAGGRF VAFSGEGQSL RKKGRKP
	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.

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- 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 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 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®):
	 In a first purification step, the protein is purified from the cleared cell lysate using StrepTag capture material. Eluate fractions are analyzed by SDS-PAGE. 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)

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Product Details

Grade:

Crystallography grade

Target Details

Target:	UFD1L
Alternative Name:	UFD1 (UFD1L Products)
Background:	Ubiquitin recognition factor in ER-associated degradation protein 1 (Ubiquitin fusion
	degradation protein 1) (UB fusion protein 1),FUNCTION: Essential component of the ubiquitin-
	dependent proteolytic pathway which degrades ubiquitin fusion proteins. The ternary complex
	containing UFD1, VCP and NPLOC4 binds ubiquitinated proteins and is necessary for the expor
	of misfolded proteins from the ER to the cytoplasm, where they are degraded by the
	proteasome. The NPLOC4-UFD1-VCP complex regulates spindle disassembly at the end of
	mitosis and is necessary for the formation of a closed nuclear envelope. It may be involved in
	the development of some ectoderm-derived structures (By similarity). Acts as a negative
	regulator of type I interferon production via the complex formed with VCP and NPLOC4, which
	binds to RIGI and recruits RNF125 to promote ubiquitination and degradation of RIGI
	(PubMed:26471729). {ECO:0000250 UniProtKB:Q9ES53, ECO:0000269 PubMed:26471729}.
Molecular Weight:	34.5 kDa
UniProt:	Q92890
Application Details	
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Application Details

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

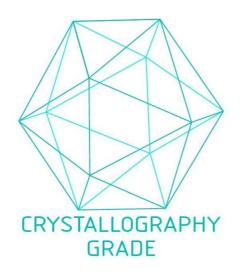


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process