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Datasheet for ABIN3096180

UACA Protein (UACA) (AA 1-1416) (Strep Tag)

1 Image

Overview

Quantity:	1 mg
Target:	UACA
Protein Characteristics:	AA 1-1416
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This UACA protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Sequence: MKSLKSRLRR QDVPGPASSG AAAASAHAAD WNKYDDRLMK AAERGDVEKV TSILAKKGVN
PGKLDVEGRS VFHVVTSKGN LECLNAILIH GVDITTSDTA GRNALHLAAK YGHALCLQKL
LQYNCPTAHL DLQGRALHD AAMADCPSSI QLLCDHGASV NAKDVDGRTP LVLATQMSRP
TICQLLIDRG ADVNSRDQKN RTALMLGCEY GCRDAVEVLI KNGADISLLD ALGHDSSYYA
RIGDNLIDLT LLKTASENTN KGRELWKKGP SLQQRNLTHM QDEVNVKSHQ REHQNIQDLE
IENEDLKERL RKIQEQRIL LDKVNGLLQ LNEEVMVADD LESEREKLKS LLAKEKQHE
ESLRTIEALK NRFKYFESDH LGSGSHFSNR KEDMLLKQGQ MYMADSQCTS PGIPAHMQSR
SMLRPLELSL PSQTSYSENE ILKKELEAMR TFCESAKQDR LKLQNELAHK VAECKALALE
CERVKEDSDE QIKQLEDALK DVQKRMYESE GKVKQMQTHF LALKEHLTSE AASGNHRLTE
ELKDQLKDLK VKYEGASAEV GKLRNLIKQN EMIVEEFKRD EGKLIENKR LQKELSMCEM
EREKKGKRVK EMEGQAKELS AKLALSIPAE KFENMKSSLS NEVNEKAKKL VEMEREHEKS
LSEIRQLKRE LENVKAKLAQ HVKPEEHEQV KSRLEQKSGE LGKKITELTL KNQTLQKEIE

KVYLDNKLLK EQAHNLTIEK KNHYVPLKVS EDMKKSHDAI IDDLNRKLLD VTQKYTEKKL
EMEKLLEND SLSKDVSRLK TVFVPEKHE KEIIALKSNI VELKKQLSEL KKKCGEDQEK
IHALTSENTN LKKMMSNQYV PVKTHEEVKM TLNDTLAKTN RELLDVKKKF EDINQEFVKI
KDKNEILKRN LENTQNQIKA EYISLAEHEA KMSSLSQSMR KVQDSNAEIL ANYRKGQEEI
VTLHAEIKAQ KKELDTIQEC IKVKYAPIVS FEECERKFKA TEKELKDQLS EQTQKYSVSE
EEVKKNKQEN DKLKKEIFTL QKDLRDKTVL IEKSHEMERA LSRKTDELNK QLKDLSQKYT
EVKNVKEKLV EENAKQTSEI LAVQNLLQKQ HVPLEQVEAL KKSLNGTIEN LKEELKSMQR
CYEKEQQTVT KLHQLLENQK NSSVPLAEHL QIKEAFEKEV GIIKASLREK EEESQNKMEE
VSKLQSEVQN TKQALKKLET REVVDLSKYK ATKSDLETQI SSLNEKLANL NRKYEEVCEE
VLHAKKKEIS AKDEKELLHF SIEQEIKDQK ERCDKSLTTI TELQRRIQES AKQIEAKDNK
ITELLNDVER LKQALNGLSQ LTYTSGNPTK RQSQLIDTLQ HQVKSLEQQL ADADRQHQEV
IAIYRTHLLS AAQGHMDEDV QEALLQIIQM RQGLVC

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 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

Product Details

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®): <ol style="list-style-type: none">1. 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.2. 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:	UACA
Alternative Name:	UACA (UACA Products)
Background:	Uveal autoantigen with coiled-coil domains and ankyrin repeats,FUNCTION: Regulates APAF1 expression and plays an important role in the regulation of stress-induced apoptosis. Promotes apoptosis by regulating three pathways, apoptosome up-regulation, LGALS3/galectin-3 down-regulation and NF-kappa-B inactivation. Regulates the redistribution of APAF1 into the nucleus after proapoptotic stress. Down-regulates the expression of LGALS3 by inhibiting NFKB1 (By similarity). {ECO:0000250},. FUNCTION: Modulates isoactin dynamics to regulate the morphological alterations required for cell growth and motility. Interaction with ARF6 may modulate cell shape and motility after injury. May be involved in multiple neurite formation (By similarity). {ECO:0000250 UniProtKB:Q8CGB3, ECO:0000250 UniProtKB:Q8HYY4}.

Target Details

Molecular Weight:	162.5 kDa
UniProt:	Q9BZF9
Pathways:	Positive Regulation of Endopeptidase Activity

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:	<p>ALiCE®, our Almost Living Cell-Free Expression System is based on a lysate obtained from <i>Nicotiana tabacum</i> 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.</p> <p>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!</p>
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)



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