

Datasheet for ABIN3096258
ULK4 Protein (AA 1-1275) (Strep Tag)



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1 Image

Overview

Quantity:	1 mg
Target:	ULK4 (ULK24)
Protein Characteristics:	AA 1-1275
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This ULK4 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), ELISA, SDS-PAGE (SDS)

Product Details

Sequence:	<p>MENFILYEEI GRGSKTVVYK GRRKGTINFV AILCTDKCKR PEITNWWRLT REIKHKNIVT FHEWYETSNH LWLVVELCTG GSLKTVIAQD ENLPEDVVRE FGIDLISGLH HLHKLGLIFC DISPRKILLE GPGTLKFSNF CLAKVEGENL EEFALVAE EGGDNGENV LKKSMSKSRVK GSPVYTAPEV VRGADFSISS DLWSLGCLLY EMFSGKPPFF SESISELTEK ILCEDPLPPI PKDSSRPKAS SDFINLLDGL LQRDPQKRLT WTRLLQHSFW KKAFAGADQE SSVEDLSLSR NTMECSGPQD SKELLQNSQS RQAKGHKSGQ PLGHSFRLEN PTEFRPKSTL EGQLNESMFL LSSRPTPRTS TAVEVSPGED MTHCSPQKTS PLTKITSGHL SQQDLESQMR ELIYTDSLVL VTPIIDNPKI MKQPPVKFDA KILHLPTYSV DKLLFLKDQD WNDFLQQVCS QIDSTESMG ASRAKLNLLC YLCVVAGHQE VATRLLHSPL FQLLIQHLRI APNWDIRAKV AHVIGLLASH TAELQENTPV VEAVLLTEL IRENFNSKL KQCLLPTLGE LIYLVATQEE KKKNPRECWA VPLAAYTVLM RCLREGEERV VNHMAAKIIE NVCTTFSQAQS QGFITGEIGP ILWYLFHRST ADSLRITAVS ALCRITRHSP TAFQNVIEKV GLNSVINSLA SAICKVQQYM LTLFAAMLSC</p>
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GIHLQRLIQE KGFVSTIIRL LDSPSTCIRA KAFLVLLYL IYNREMLLLS CQARLVMYIE RDSRKTTPGK
EQQSGNEYLS KCLDLLICHI VQELPRILGD ILNSLANVSG RKHPSTVQVK QLKLCPLMP
VVLHLVTSQV FRPQVVTEEF LFSYGTILSH IKSVDSETN IDGAIGLTAS EEFIKITLSA FEAIQYPIL
LKDYRSTVVD YILPPLVSLV QSQNVEWRLF SLRLLSETTS LLVNQEFGDG KEKASVSDSDS
NLLALIRDVL LPQYEHILLE PDPVPAYALK LLVAMTEHNP TFTRLVEESK LIPLIFEVTL
EHQESILGNT MQSVIALLSN LVACKDSNME LLYEQGLVSH ICNLLTETAT LCLDVDNKNN
NEMAAPLLFS LLDILHSMLT YTSGIVRLAL QAQKSGSGED PQAAEDLLLL NRPLTDLISL
LIPLLPNEDP EIFDVSSKCL SILVQLYGGE NPDSLSPENV EIFAHLITSK EDPKEQKLLL
RILRRMITSN EKHLESLKNA GSLLRALERL APGSGSFADS AVAPLALAIL QAVGH

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 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!

Product Details

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®):

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:

ULK4 (ULK24)

Alternative Name:

ULK4 ([ULK24 Products](#))

Background:

Serine/threonine-protein kinase ULK4 (EC 2.7.11.1) (Unc-51-like kinase 4),FUNCTION: May be involved in the remodeling of cytoskeletal components, such as alpha-tubulin, and in this way regulates neurite branching and elongation, as well as cell motility.
{ECO:0000269|PubMed:24284070}.

Molecular Weight:

142.4 kDa

UniProt:

[Q96C45](#)

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.

Application Details

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)

Images



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