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Datasheet for ABIN3137427
AKAP8L Protein (AA 1-642) (Strep Tag)

Overview

Quantity:	1 mg
Target:	AKAP8L
Protein Characteristics:	AA 1-642
Origin:	Mouse
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This AKAP8L protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Sequence: MSYTGfVQGS ETTLQSTYCD TSAQPTCDYG YGTWNSGTNR GYENYGYGYG YGQDNTTNYG
YGMATSHSWE MASSDTNANP SASGSASADS VLSRINQLRD MMPHLETDMI QGGVYGS GGG
ERYDSYEACD SRAILSERDL YRSSYDYGEL DPEMEMAYEG QYDAYRDQFR MRGGDTFGPR
AQGWARDARS GRPMASGYGR MWEDPMGARG QCMPGASRLP SLFSQNIPE YGMFQGM RGG
GAFSGGSRFG FGFNGMKQM RRTWKTWTTA DFRTK KKKRQ QGGSPDEPDS KATRTDCSDN
SDSDNDEGTE GEAAEGTESA EAMEKGS RVD GEDEEGKEDG REEGKEDPEK GALTAQDESS
QAKRKLQASK KSQDKQKKRQ RDRMVERIQF VC SLCKYRTF YEDEMGS HLD SKFHKEHFKY
VGTKLPKQTA DFLQEYVTNK TKKTEELRKT VEDLDGLIQQ IYRDQDLTQE IAMEHFVKKV
EAAHCAACDL FIPMQFGIIQ KHLKTMDHNR NRRLMMEQSK KSSLMVARS I LNNKLISKKL
ERYLKGENPF TDNPEEEKEQ DEVEAGALDE GAPSEATELT EGVPAQPPVP LEPAPGTTTP
PPPPPEEEEE SPVPLLGGAL QCQIRGIPGL DMEDDEEGGG GP

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!

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
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Product Details

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: $\geq 80\%$ 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: AKAP8L

Alternative Name: Akap8l ([AKAP8L Products](#))

Background: A-kinase anchor protein 8-like (AKAP8-like protein) (Neighbor of A-kinase-anchoring protein 95) (Neighbor of AKAP95),FUNCTION: Could play a role in constitutive transport element (CTE)-mediated gene expression by association with DHX9. Increases CTE-dependent nuclear unspliced mRNA export. Proposed to target PRKACA to the nucleus but does not seem to be implicated in the binding of regulatory subunit II of PKA. May be involved in nuclear envelope breakdown and chromatin condensation. May be involved in anchoring nuclear membranes to chromatin in interphase and in releasing membranes from chromatin at mitosis. May regulate the initiation phase of DNA replication when associated with TMPO isoform Beta. Required for cell cycle G2/M transition and histone deacetylation during mitosis. In mitotic cells recruits HDAC3 to the vicinity of chromatin leading to deacetylation and subsequent phosphorylation at 'Ser-10' of histone H3, in this function seems to act redundantly with AKAP8. May be involved in regulation of pre-mRNA splicing (By similarity). {ECO:0000250|UniProtKB:Q9ULX6}.

Molecular Weight: 71.5 kDa

UniProt: [Q9R0L7](#)

Pathways: [SARS-CoV-2 Protein Interactome](#)

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

Application Details

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)