



[Go to Product page](#)

Datasheet for ABIN3092160  
**DIP2A Protein (AA 1-1571) (Strep Tag)**

### Overview

Quantity:	1 mg
Target:	DIP2A
Protein Characteristics:	AA 1-1571
Origin:	Human
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This DIP2A protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Sequence: MADRGCPLEA APLPAEVRES LAELELELSE GDITQKGYEK KRAKLLARYI PLIQGIDPSL  
QAENRIPGPS QTAAAPKQQ KSRPTASRDE RFRSDVHTEA VQAALAKYKE RKMPMPSKRR  
SVLVHSSVET YTPPDTSSAS EDEGLRRPG RLTSTPLQSH SSVEPWLDRV IQGSSTSSSA  
SSTSSHPGGR PTTAPSAAAT PGAAATTALA GLEAHTHIDL HSAPPDVTTG LVEHSYFERP  
QVASVRSVPR GCSGSMLETA DGVPVNSRVS SKIQQLLNTL KRPKRPLKE FFVDDFEELL  
EVQQPDNPQ KPEGSETSVL RGEPLTAGVP RPPSLLATLQ RWGTTQPKSP CLTALDTTGK  
AVYTLTYGKL WSRSLKLAYT LLNKLTSKNE PLLKPGDRVA LVFPNSDPVM FMVAFYGCLL  
AELVPVPIEV PLTRKDAGSQ QVGFLGSCG VFLALTTDAC QKGLPKAQTG EVAAFKGWPP  
LSWLVIDGKH LAKPPKDWHP LAQDTGTGTA YIEYKTSKEG STVGTVSHA SLLAQCRALT  
QACGYSEAET LTNVLDFKRD AGLWHGVLTS VMNRMHVSV PYALMKANPL SWIQKVC FYK  
ARAALVKSRD MHWLLAQRG QRDVLSLRL MLIVADGANP WSISSCDAFL NVFQSRGLRP  
EVICPCASSP EALTVAIRRP PDLGGPPPRK AVLSMNGLSY GVIRVDTEEK LSVLTVQDVG

QVMPGANVCV VKLEGTPYLC KTDEVGEICV SSSATGTAYY GLLGITKNVF EAVPVTTGGA  
PIFDRPFTRT GLLGFIGPDN LVFIVGKLDG LMVTGVRRH ADDVVATALA VEPMKFVYRG  
RIAVFSVTVL HDDRIVLVAE QRPDASEEDS FQWMSRVLQA IDSIHQVGVY CLALVPANTL  
PKAPLGGIHI SETKQRFLEG TLHPCNVLMC PHTCVTNLPK PRQKQPEVGP ASMIVGNLVA  
GKRIAQASGR ELAHLESDQ ARKFLFLADV LQWRAHTTPD HPLFLLNNAK GTVTSTATCV  
QLHKRAERVA AALMEKGRLS VGDHVALVYP PGVDLIAAFY GCLYCGCVPV TVRPPHPQNL  
GTTLPTVKMI VEVSKSACVL TTQAVTRLLR SKEAAAVIDI RTWPTILD TD DIPKKIASV  
FRPPSPDVA YLDFSVSTTG ILAGVKMSHA ATSALCRSIK LQCELYPSRQ IAICLDPYCG  
LGFALWCLCS VYSGHQSVLV PPLELESNVS LWLSAVSQYK ARVTFCSYSV MEMCTKGLGA  
QTGVLRMKGV NLSCVRTCMV VAEERPRIAL TQSFSKLFKD LGLPARAVST TFGCRVNVAI  
CLQGTAGPDP TTVYVDMRAL RHDRVRLVER GSPHSLPLME SGKILPGVKV IIAHTETKGP  
LGDSLGEIW VSSPHNATGY YTVYGEELH ADHFSARLSF GDTQTIWART GYLGLRRT  
LTDASGGRHD ALYVVGSLDE TLELRGMRYH PIDIETSVIR AHRSAIECAV FTWTNLLVVV  
VELDGLEQDA LDLVALVTNV VLEEHLVVG VVVIVDPGVI PINSRGEKQR MHLRDGFLAD  
QLDPIYVAYN M

**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.**

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### 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-

## Product Details

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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.

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Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): <ol style="list-style-type: none"><li>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.</li><li>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.</li></ol>
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)

## Target Details

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Target:	DIP2A
Alternative Name:	DIP2A ( <a href="#">DIP2A Products</a> )
Background:	Disco-interacting protein 2 homolog A (DIP2 homolog A) (EC 6.2.1.1),FUNCTION: Catalyzes the de novo synthesis of acetyl-CoA in vitro (By similarity). Promotes acetylation of CTTN, possibly by providing the acetyl donor, ensuring correct dendritic spine morphology and synaptic transmission (By similarity). Binds to follistatin-related protein FSTL1 and may act as a cell surface receptor for FSTL1, contributing to AKT activation and subsequent FSTL1-induced survival and function of endothelial cells and cardiac myocytes (PubMed:20054002). {ECO:0000250 UniProtKB:Q8BWT5, ECO:0000269 PubMed:20054002}.
Molecular Weight:	170.4 kDa

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## Target Details

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UniProt: [Q14689](#)

Pathways: [M Phase](#)

## Application Details

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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

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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)