

Datasheet for ABIN3088843

AHDC1 Protein (AA 1-1603) (Strep Tag)



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Overview

Quantity:	1 mg
Target:	AHDC1
Protein Characteristics:	AA 1-1603
Origin:	Human
Source:	Tobacco (<i>Nicotiana tabacum</i>)
Protein Type:	Recombinant
Purification tag / Conjugate:	This AHDC1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	<p>MRVKPQGLVV TSSAVCSSPD YLREPKYYPG GPPTPRLLP TRPPASPPDK AFSTHAFSEN PRPPRRDPS TRRPPVLAKG DDPLPPRAAR PVSQARCPTP VGDGSSSRRC WDNGRVNLRP VVQLIDIMKD LTRLSQDLQH SGVHLDCGGL RLSRPPAPPP GDLQYSFFSS PSLANSIRSP EERATPHAKS ERPSHPLYEP EPEPRDSPQP GQGHSPGATA AATGLPPEPE PDSTDYSELA DADILSELAS LTCPEAQLLE AQALEPPSPE PEPQLLDPQP RFLDPQALEP LGEALELPPL QPLADPLGLP GLALQALDTL PDSLESQLLD PQALDPLPKL LDVPGRRLEP QQPLGHCP EPLRLDLCSP HGPPGPEGHP KYALRRTDRP KILCRRRKAG RGRKADAGPE GRLLPLPMPT GLVAALAEPP PPPPPPPAL PGPGVSVPE LKPESSQTPV VSTRKKGKCRG VRRMVVKMAK IPVSLGRRNK TTYKVSSLSS SLSVEGKELG LRVSAEPTPL LKMKNNGRNV VVVFPPGEMP IILKRKRGRP PKNLLGPGK PKEPAVVAE AATVAAATMA MPEVKKRRRR KQKLASPQPS YAADANDSKA EYSDVLAKLA FLNRQSQCAG RCSPPRCWTP SEPESVHQAP DTQSISHFLH RVQGFRRRGG KAGGFGRGG GHAAKSARCS FSDFFEGIGK KKKVVAVAAA GVGPGPLTEL</p>
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GHPKRGRGE VDAVTGKPKR KRRSRKNGTL FPEQVPSGPG FGEAGAEWAG DKGGGWAPHH
GHPGGQAGR N CGFQGTEARA FASTGLES GA SGRGSYYSTG APSGQTELSQ ERQNLFTGYF
RSLDSDSS DLLDFALSAS RPESRKASGT YAGPPTSALP AQRGLATFPS RGAKASPVAV
GSSGAGADPS FQPVLSARQT FPPGRAASYG LTPAASDCRA AETFPKLVPP PSAMARSPTT
HPPANTYLPQ YGGYGAGQSV FAPTKPFTGQ DCANSKDCSF AYGSGNSLPA SPSSAHSAGY
APPPTGGPCL PPSKASFFSS SEGAPFSGSA PTPLRCDSRA STVSPGGYMV PKGTTASATS
AASAASSSSS SFQPSPENCR QFAGASQWPF RQGYGGLDWA SEAFS QLYNP SFDCHVSEPN
VILDISNYTP QKVKQQTAVS ETFSESSSDS TQFNQPVGGG GFRRANSEAS SSEGQSSLSS
LEKLMMDWNE ASSAPGYNWN QSVLFQSSSK PGRGRRKKVD LFEASHLGFP TSASAAAAGY
PSKRSTGPRQ PRGGRGGGAC SAKKERGGAA AKAKFIPKPQ PVNPLFQDSP DLGLDYYSGD
SSMSPLPSQS RAFGVGERDP CDFIGPYSMN PSTPSDGTFG QGFHCDSPL GAPELDGKHF
PPLAHPPTVF DAGLQKAYSP TCSPTLGFKELRPPPTKLA ACEPLKHGLQ GASLGHAAAA
QAHLSCRDLPLGQPHYDPS CKGTAYWYPP GSAARSPPYE GKVGTGLLAD FLGRTEAACL
SAPHLASPPA TPKADKEPLE MARPPGPPRG PAAAAAGYGC PLLSDLTLSP VPRDSSLPLQ
DTAYRYPGFM PQAHPGLGGG PKSGFLGPMA EPHPEDTFTV TSL

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-

Product Details

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®): <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:	AHDC1
Alternative Name:	AHDC1 (AHDC1 Products)
Background:	Transcription factor Gibbin (AT-hook DNA-binding motif-containing protein 1),FUNCTION: Transcription factor required for the proper patterning of the epidermis, which plays a key role in early epithelial morphogenesis (PubMed:35585237). Directly binds promoter and enhancer regions and acts by maintaining local enhancer-promoter chromatin architecture (PubMed:35585237). Interacts with many sequence-specific zinc-finger transcription factors and methyl-CpG-binding proteins to regulate the expression of mesoderm genes that wire surface ectoderm stratification (PubMed:35585237). {ECO:0000269 PubMed:35585237}.

Target Details

Molecular Weight: 168.3 kDa

UniProt: [Q5TGY3](#)

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 *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)



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