

Datasheet for ABIN3096277

UNC45A Protein (AA 1-944) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	UNC45A
Protein Characteristics:	AA 1-944
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This UNC45A protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AlIcE®
Sequence:	<p>MTVSGPGTPE PRPATPGASS VEQLRKEGNE LFKCGDYGGA LAAYTQALGL DATPQDQAVL</p> <p>HRNRAACHLK LEDYDKAETE ASKAIEKDGG DVKALYRRSQ ALEKLGRLDQ AVLDLQRCVS</p> <p>LEPKNKVFQE ALRNIGGQIQ EKVRYSSTD AKVEQMFQIL LDPEEKGTEK KQKASQNLVV</p> <p>LAREDAGA EK IFRSNGVQLL QRLLDMGETD LMLAALRTL V GICSEHQSR T VATLSILGTR</p> <p>RVVSILGVES QAVSLAACHL LQVMFDALKE GVKKGFRGKE GAIIVDPARE LKVLISNLLD</p> <p>LLTEVGVSQG GRDNALTLLI KAVPRKSLKD PNNSLTLWVI DQGLKKILEV GGS LQDPPGE</p> <p>LAVTANSRMS ASILLSKLFD DLKCD AEREN FHRLCENYIK SWFEGQGLAG KLRAIQT VSC</p> <p>LLQGPCDAGN RALELSGVME SVIALCASEQ EEEQLVAVEA LIHAAGKAKR ASFITANGVS</p> <p>LLKDLYKCSE KDSIRIRALV GLCKLGSAGG TDFSMKQFAE GSTLKLAKQC RKWLCNDQID</p> <p>AGTRRWAVEG LAYLTFDADV KEEFVEDAAA LKALFQLSRL EERSVLFAVA SALVNCTNSY</p> <p>DYEEDPKMV ELAKYAKQHV PEQHPKDKPS FVRARVKKLL AAGVVSAMVC MVKTESPVLT</p>

SSCRELLSRV FLALVEEVED RGTVVAQGGG RALIPLALEG TDVGQTKAAQ ALAKLTITSN
PEMTFPGERI YEVRPLVSL LHLNCSGLQN FEALMALTNL AGISERLRQK ILKEKAVPMI
EGYMFEEHEM IRRATECMC NLAMSKEVQD LFEAQGNDRL KLLVLYSGED DELLQRAAAG
GLAMLTSMRP TLCSRIQVT THWLEILQAL LLSSNQELQH RGAVVVLNMV EASREIATL
MESEMMEILS VLAKGDHSPV TRAAAACLDK AVEYGLIQPN QDGE

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 in one-step affinity chromatography
- 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 try to ensure that you receive soluble 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 against its specific reference buffer.
- We use the ExPASy's ProtParam tool to determine the absorption coefficient of each protein.

Product Details

Purification:	One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).
Purity:	> 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).
Grade:	custom-made

Target Details

Target:	UNC45A
Alternative Name:	UNC45A (UNC45A Products)
Background:	<p>Protein unc-45 homolog A (Unc-45A) (GCUNC-45) (Smooth muscle cell-associated protein 1) (SMAP-1),FUNCTION: Acts as a co-chaperone for HSP90. Prevents the stimulation of HSP90AB1 ATPase activity by AHSA1. Positive factor in promoting PGR function in the cell. May be necessary for proper folding of myosin (Potential). Necessary for normal cell proliferation. Necessary for normal myotube formation and myosin accumulation during muscle cell development. May play a role in erythropoiesis in stroma cells in the spleen (By similarity). {ECO:0000250, ECO:0000269 PubMed:12119110, ECO:0000269 PubMed:16478993, ECO:0000305}.</p>
Molecular Weight:	103.1 kDa
UniProt:	Q9H3U1

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</p>

Application Details

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Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: The buffer composition is at the discretion of the manufacturer.
Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol **Might differ depending on protein.**

Handling Advice: Avoid repeated freeze-thaw cycles.

Storage: -80 °C

Storage Comment: Store at -80°C.

Expiry Date: 12 months