

Datasheet for ABIN3093982

MYBPC1 Protein (AA 1-1141) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	MYBPC1
Protein Characteristics:	AA 1-1141
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MYBPC1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	<p>MPEPTKKEEN EVPAPAPPPE EPSKEKEAGT TPAKDWTLVE TPPGEEQAKQ NANSQLSILF IEKPQGGTVK VGEDITFIAK VKAEDLLRKP TIKWFKGKWM DLASKAGKHL QLKETFERHS RVTYFEMQII KAKDNFAGNY RCEVTYKDKF DSCSFDLEVH ESTGTTPNID IRSAFKRSGE GQEDAGELDF SGLLKRREVK QQEEEPQVDV WELLKNAKPS EYEKIAFQYG ITDLRGMLKR LKRMREEKK SAAFAKILDP AYQVDKGGRV RFVVELADPK LEVKWYKNGQ EIRPSTKYIF EHKGCRILF INNCQMTDDS EYYVTAGDEK CSTELFVREP PIMVTKQLED TTAYCGERVE LECEVSEDDA NVKWFKNTEE IIPGPKSRYR IRVEGKKHIL IIEGATKADA AEYSVMTTGG QSSAKLSVDL KPLKILTPLT DQTVNLGKEI CLKCEISENI PGKWTKNGLP VQESDRLKVV HKGRIHKLVI ANALTEDEGD YVFAPDAYNV TLPKVVHVID PPKIILDGLD ADNTVTVIAG NKLRLIPIIS GEPPPKAMWS RGDKAIMEGS GRIRTESYPD SSTLVIDIAE RDDSGVYHIN LKNEAGEAHA SIKVKVDFP DPPVAPTVE VGDDWCIMNW EPPAYDGGSP ILGYFIERKK</p>

KQSSRWMLN FDLCKETTFE PKKMIEGVAY EVRIFAVNAI GISKPSMPSPR PFVPLAVTSP
PTLLTVDSVT DTTVTMRWRP PDHIGAAGLD GYVLEYCFEG STSAKQSDEN GEAAAYDLPAE
DWIVANKDLI DKTKFTITGL PTDKIFVRV KAVNAAGASE PKYYSQPILV KEIIEPPKIR IPRHLKQTYI
RRVGEAVNLV IPFQGKPRPE LTWKKDGAEI DKNQINIRNS ETDTIIFIRK AERSHSGKYD
LQVKVDKFVE TASIDIQIID RGPQQIVKI EDVWGENVAL TWTPPKDDGN AAITGYTIQK
ADKKSMEWFT VIEHYHRTSA TITELVIGNE YYFRVFSENM CGLSEDATMT KESAVIARDG
KIYKNPVYED FDFSEAPMFT QPLVNTYAIA GYNATLNCSV RGNPKPKITW MKNKVAIVDD
PRYRMFSNQG VCTLEIRKPS PYDGGTYCCK AVNDLGTVEI ECKLEVKVIA Q

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:

Product Details

- 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.

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: MYBPC1

Alternative Name: MYBPC1 ([MYBPC1 Products](#))

Background: Myosin-binding protein C, slow-type (Slow MyBP-C) (C-protein, skeletal muscle slow isoform),FUNCTION: Thick filament-associated protein located in the crossbridge region of vertebrate striated muscle a bands. Slow skeletal protein that binds to both myosin and actin (PubMed:31264822, PubMed:31025394). In vitro, binds to native thin filaments and modifies the activity of actin-activated myosin ATPase. May modulate muscle contraction or may play a more structural role. {ECO:0000269|PubMed:31025394, ECO:0000269|PubMed:31264822}.

Molecular Weight: 128.3 kDa

UniProt: [Q00872](#)

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.

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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