Datasheet for ABIN3093634

MIS18 Binding Protein 1 (MIS18BP1) (AA 1-1132) protein (Strep Tag)

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Overview

Quantity:	250 µg
Target:	MIS18 Binding Protein 1 (MIS18BP1)
Protein Characteristics:	AA 1-1132
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	Strep Tag
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MIATPLKHSR IYLPPEASSQ RRNLPMDAIF FDSIPSGTLT PVKDLVKYQN SSLKLNDHKK NQFLKMTTFN NKNIFQSTML TEATTSNSSL DISAIKPNKD GLKNKANYES PGKIFLRMKE KVLRDKQEQP SRNSSLLEPQ KSGNNETFTP NRVEKKKLQH TYLCEEKENN KSFQSDDSSL RASVQGVPLE SSNNDIFLPV KQKIQCQQEK KAPLHNLTYE LPTLNQEQEN FLAVEARNKT LTRAQLAKQI FHSKESIVAT TKSKKDTFVL ESVDSADEQF QNTNAETLST NCIPIKNGSL LMVSDSERTT EGTSQQKVKE GNGKTVPGET GLPGSMKDTC KIVLATPRLH ITIPRRSKRN ISKLSPPRIF QTVTNGLKKN QVVQLQEWMI KSINNNTAIC VEGKLIDVTN IYWHSNVIIE RIEHNKLRTI SGNVYILKGM IDQISMKEAG YPNYLIRKFM FGFPENWKEH IDNFLEQLRA GEKNREKTKQ KQKTGRSVRD IRKSMKNDAR ENQTDTAQRA TTTYDFDCDN LELKSNKHSE SPGATELNMC HSNCQNKPTL RFPDDQVNNT IQNGGGDDLS NQELIGKKEY KMSSKKLKIG ERTNERIIKS QKQETTEELD VSIDILTSRE QFFSDEERKY MAINQKKAYI LVTPLKSRKV

IEQRCMRYNL SAGTIKAVTD FVIPECQKKS PISKSMGTLE NTFEGHKSKN KEDCDERDLL TVNRKIKISN LEKEQMLTSD FKKNTRLLPK LKKIENQVAM SFYKHQSSPD LSSEESETEK EIKRKAEVKK TKAGNTKEAV VHLRKSTRNT SNIPVILEPE TEESENEFYI KQKKARPSVK ETLQKSGVRK EFPITEAVGS DKTNRHPLEC LPGLIQDKEW NEKELQKLHC AFASLPKHKP GFWSEVAAAV GSRSPEECQR KYMENPRGKG SQKHVTKKKP ANSKGQNGKR GDADQKQTIK ITAKVGTLKR KQQMREFLEQ LPKDDHDDFF STTPLQHQRI LLPSFQDSED DDDILPNMDK NPTTPSSVIF PLVKTPQCQH VSPGMLGSIN RNDCDKYVFR MQKYHKSNGG IVWGNIKKKL VETDFSTPTP RRKTPFNTDL GENSGIGKLF TNAVESLDEE EKDYYFSNSD SA

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:	MIS18 Binding Protein 1 (MIS18BP1)
Alternative Name:	MIS18BP1 (MIS18BP1 Products)
Background:	Mis18-binding protein 1 (Kinetochore-associated protein KNL-2 homolog) (HsKNL-2) (P243),FUNCTION: Required for recruitment of CENPA to centromeres and normal chromosome segregation during mitosis. {ECO:0000269|PubMed:17199038, ECO:0000269|PubMed:17339379}.
Molecular Weight:	129.1 kDa
UniProt:	Q6P0N0
Pathways:	Chromatin Binding

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

Application Details

	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. 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