antibodies

Datasheet for ABIN3093733 MEIS2 Protein (AA 1-477) (Strep Tag)





Overview

Quantity:	1 mg
Target:	MEIS2
Protein Characteristics:	AA 1-477
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MEIS2 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

	have a special request, please contact us.
	system, a different complexity of the protein could make another tag necessary. In case you
	Sequence without tag. The proposed Strep-Tag is based on experience s with the expression
	HGPPMHSYLP SHPHHPAMMM HGGPPTHPGM TMSAQSPTML NSVDPNVGGQ VMDIHAQ
	PEGQPMGSFV LDGQQHMGIR PAGLQSMPGD YVSQGGPMGM SMAQPSYTPP QMTPHPTQLR
	HPYPSEEQKK QLAQDTGLTI LQVNNWFINA RRRIVQPMID QSNRAGFLLD PSVSQGAAYS
	ASQSGDNSSE QGDGLDNSVA SPGTGDDDDP DKDKKRQKKR GIFPKVATNI MRAWLFQHLT
	GKMPIDLVID ERDGSSKSDH EELSGSSTNL ADHNPSSWRD HDDATSTHSA GTPGPSSGGH
	EDIAVFAKQV RAEKPLFSSN PELDNLMIQA IQVLRFHLLE LEKVHELCDN FCHRYISCLK
	MPASMGSAVN DALKRDKDAI YGHPLFPLLA LVFEKCELAT CTPREPGVAG GDVCSSDSFN
Sequence:	MAQRYDELPH YGGMDGVGVP ASMYGDPHAP RPIPPVHHLN HGPPLHATQH YGAHAPHPNV

Characteristics:

Key Benefits:

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- · 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 posttranslational 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®):

- 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.
- 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.

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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:	MEIS2
Alternative Name:	MEIS2 (MEIS2 Products)
Background:	Homeobox protein Meis2 (Meis1-related protein 1),FUNCTION: Involved in transcriptional
	regulation. Binds to HOX or PBX proteins to form dimers, or to a DNA-bound dimer of PBX and
	HOX proteins and thought to have a role in stabilization of the homeoprotein-DNA complex.
	Isoform 3 is required for the activity of a PDX1:PBX1b:MEIS2b complex in pancreatic acinar
	cells involved in the transcriptional activation of the ELA1 enhancer, the complex binds to the
	enhancer B element and cooperates with the transcription factor 1 complex (PTF1) bound to
	the enhancer A element, MEIS2 is not involved in complex DNA-binding. Probably in complex
	with PBX1, is involved in transcriptional regulation by KLF4. Isoform 3 and isoform 4 can bind to
	a EPHA8 promoter sequence containing the DNA motif 5'-CGGTCA-3', in cooperation with a
	PBX protein (such as PBX2) is proposed to be involved in the transcriptional activation of
	EPHA8 in the developing midbrain. May be involved in regulation of myeloid differentiation. Can
	bind to the DNA sequence 5'-TGACAG-3'in the activator ACT sequence of the D(1A) dopamine
	receptor (DRD1) promoter and activate DRD1 transcription, isoform 5 cannot activate DRD1
	transcription. {ECO:0000269 PubMed:10764806, ECO:0000269 PubMed:11279116,
	ECO:0000269 PubMed:21746878}.
Molecular Weight:	51.8 kDa
UniProt:	014770
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

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	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)

Images

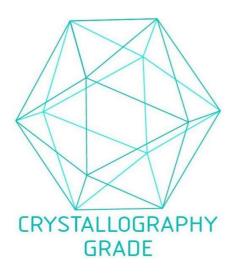


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process

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