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MEIS2 Protein (AA 1-477) (Strep Tag)



Overview

Quantity:	1 mg
Target:	MEIS2
Protein Characteristics:	AA 1-477
Origin:	Mouse
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

Sequence:

MAQRYDELPH YGGMDGVGVP ASMYGDPHAP RPIPPVHHLN HGPPLHATQH YGAHAPHPNV
MPASMGSAVN DALKRDKDAI YGHPLFPLLA LVFEKCELAT CTPREPGVAG GDVCSSDSFN
EDIAVFAKQV RAEKPLFSSN PELDNLMIQA IQVLRFHLLE LEKVHELCDN FCHRYISCLK
GKMPIDLVID ERDGSSKSDH EELSGSSTNL ADHNPSSWRD HDDATSTHSA GTPGPSSGGH
ASQSGDNSSE QGDGLDNSVA SPGTGDDDDP DKDKKRQKKR GIFPKVATNI MRAWLFQHLT
HPYPSEEQKK QLAQDTGLTI LQVNNWFINA RRRIVQPMID QSNRAGFLLD PSVSQGAAYS
PEGQPMGSFV LDGQQHMGIR PAGLQSMPGD YVSQGGPMGM GMAQPSYTPP QMTPHPTQLR
HGPPMHSYLP SHPHHPAMVM HGGPPTHPGM TMSAQSPTML NSVDPNVGGQ VMDIHAQ
Sequence without tag. The proposed Strep-Tag is based on experience s with the expression

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 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.

Product Details ≥ 80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot. Purity: Endotoxin Level: Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg) Target Details MFIS2 Target: 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 Meis2B 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. Isoforms Meis2B and Meis2D 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. {ECO:0000269|PubMed:11279116, ECO:0000269|PubMed:11438208, ECO:0000269|PubMed:17178831}. 51.7 kDa Molecular Weight: UniProt: P97367 **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

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. 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)