

Datasheet for ABIN3137495

## MAD1L1 Protein (AA 1-717) (Strep Tag)



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### Overview

Quantity:	250 µg
Target:	MAD1L1
Protein Characteristics:	AA 1-717
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This MAD1L1 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

### Product Details

Brand:	AliCE®
Sequence:	<p>MEDLGENTTV LSSLRSLNNF ISQRMEGTSG LDVSTSASGS LQKQYEHMQ LEERAEQIRS</p> <p>KSYLIQVERE KMQMELSHKR ARVELERAAS TNARNYEREV DRNQELLARI RQLQECEATA</p> <p>EELKREQLER HRLCKQNLDA VSQQLREQED SLASAREMIS SLKGRVSELQ LSAMDQKVQV</p> <p>KRLESEKQEL KEQLELQQRK WQEANQKIQE LQASQDERAE HEQKIKDLEQ KLCLQEQDAA</p> <p>VVKSMKSELM RMPRMERELK RLHEENTHLR EMKETNGLLT EELEGLQRKL SRQEKMQEAL</p> <p>VDLELEKEKL LAKLQSWENL DQTMGLNLRT PEDLSRFVVE LQQRELTKE KNNSITSSAR</p> <p>GLEKVQQQLQ DEVRQANAQL LEERKKRETH EALARRLQKR NALLTKERDG MRAILGSYDS</p> <p>ELTQTEYSTQ LTQRLWEAED MVQKVHAHSS EMEAQLSQAL EELGVQKQRA DTLEMELKML</p> <p>KAQTSSAESS FSFCKEEVDA LRLKVEELEG ERSRLEQEKQ VLEMQMEKLT LQGDYNQSRT</p> <p>KVLHMSLNPI SMARQRQHED HDRLQEECER LRGLVHALER GGPIPADLEA ASSLPSSKEV</p> <p>AELRKQVESA ELKNQRLKEV FQTKIQEFRK VCYTLTGYQI DVTTESQYRL TSRYAEHQTD</p>

CLIFKATGPS GSKMQLLETE FSRVPELIE LHLLQQDSIP AFLSALTIEL FSRQTSI

**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.**

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### 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.

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### Purification:

One-step Strep-tag purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®).

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## Product Details

Purity: > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

Grade: custom-made

## Target Details

Target: MAD1L1

Alternative Name: Mad1l1 ([MAD1L1 Products](#))

Background: Mitotic spindle assembly checkpoint protein MAD1 (Mitotic arrest deficient 1-like protein 1) (MAD1-like protein 1),FUNCTION: Component of the spindle-assembly checkpoint that prevents the onset of anaphase until all chromosomes are properly aligned at the metaphase plate (By similarity). Forms a heterotetrameric complex with the closed conformation form of MAD2L1 (C-MAD2) at unattached kinetochores during prometaphase, recruits an open conformation of MAD2L1 (O-MAD2) and promotes the conversion of O-MAD2 to C-MAD2, which ensures mitotic checkpoint signaling (By similarity). {ECO:0000250|UniProtKB:Q9Y6D9}.

Molecular Weight: 83.5 kDa

UniProt: [Q9WTX8](#)

Pathways: [M Phase](#)

## 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 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

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Format: Liquid

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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.**

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Handling Advice: Avoid repeated freeze-thaw cycles.

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Storage: -80 °C

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Storage Comment: Store at -80°C.

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Expiry Date: 12 months