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Datasheet for ABIN3136343  
**DIS3L Protein (AA 1-1053) (Strep Tag)**

### Overview

Quantity:	1 mg
Target:	DIS3L
Protein Characteristics:	AA 1-1053
Origin:	Mouse
Source:	Tobacco ( <i>Nicotiana tabacum</i> )
Protein Type:	Recombinant
Purification tag / Conjugate:	This DIS3L protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

### Product Details

Sequence: MLQKREKVL LRTFQGR TLRIVREHYLRPSVPCNSPLCPQPAACRNDGKLAAEVTHYVI  
PDWKVVQDYLEVLEFPELKGVIFMQTACQAVQHQRGRRQYNKLRNLLKDA RHDCVLFANE  
FQQHCYLPREKGEAMEKWQTSIYNSAVWY YHHCEDRMPIVMVTEDEEAI QKYGSETEGV  
FVISFKNYLDNFWPDLKAAHDLCDLSILQSR RERETESQET HGKEYPEHLP LEVLEAGIKS  
GRYIQGILNV NKHRAQIEAFVRLHGASSKD SGLVSDILIH GSKARNRSIH GDVVVVEMLP  
KSEWKGRTAA LGENDSDDKA SGESPSEMP TGRVVGILQK NWRDYVVTFP SKEEVQSQ GK  
NAQKILVTPW DYRIPKIRIS TQQAELQDF RVVVRIDSW EATSVYPNGHF VRVLGRIGDL  
EGEIATILVE NSISVVPFSE AQMCMPVNT PENPWKVSPK EEQERKDLRT THLVFSIDPK  
GCEDVDDTLS VRTLNNGNLE LGVHIADVTH FVAPNSYIDV EARTRATTTY LADRRYDMLP  
SILSADLCSL LGGVDRYAVS VMWELDKTSY EIKKVWYGRT IIRSAYKLFY EAAQELLDGN  
FSIVDDIPEL KALDKQSQA KLEELVWAIG KLTDIARHIR AKRDRCGALE LEGVEVRVQL  
DDKKNIRDLI PKQPLEVHET VAECMILANH WVAKKIWESF PHQALLRQHP PPHQEFFFSEL

RECAKAKGFF IDTRSNKTLA DSLDSANDPK DPLVKNLLRS MATQAMSNAL YFSTGSCAEE  
EFHHYGLALD KYTHFTSPIR RYSDIVVHRL LMAAISKDKK MEIKENLFSN KNLEELCRHI  
NNRNRAAQRS QKQSTELFQC MYFKDRDAET EERCIADGVI YSIRTNGVLV FIPRFGIKGA  
AYLKNKDSLIV ISCGPEGSSE WKPGSLQRSQ NKIISTTAGG QSVTFHFLFDH VTVRISVQAS  
RCHSDTIRLE IVSNKPYMIP NTELCHQSSL LKSELVKEVT RSVEEAQLAQ EVKGKVIQEE  
HQEYCQTKGR SLYTLLEEIR DLALLDVSDS CAM

**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 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 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.

## Product Details

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- 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.

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Purification:	Two step purification of proteins expressed in Almost Living Cell-Free Expression System (ALiCE®): <ol style="list-style-type: none"><li>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.</li><li>2. 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.</li></ol>
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)

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## Target Details

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Target:	DIS3L
Alternative Name:	Dis3l ( <a href="#">DIS3L Products</a> )
Background:	DIS3-like exonuclease 1 (EC 3.1.13.1),FUNCTION: Catalytic component of the RNA exosome complex which has 3'->5' exoribonuclease activity and participates in a multitude of cellular RNA processing and degradation events. In the cytoplasm, the RNA exosome complex is involved in general mRNA turnover and specifically degrades inherently unstable mRNAs containing AU-rich elements (AREs) within their 3' untranslated regions, and in RNA surveillance pathways, preventing translation of aberrant mRNAs. It seems to be involved in degradation of histone mRNA. {ECO:0000250 UniProtKB:Q8TF46}.
Molecular Weight:	120.3 kDa
UniProt:	<a href="#">Q8C0S1</a>

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## Application Details

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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 <i>Nicotiana tabacum</i> c.v.. This contains all the protein expression machinery needed to produce

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## Application Details

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Restrictions: For Research Use only

## Handling

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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)