

Datasheet for ABIN3136735 EXD2 Protein (AA 1-650) (Strep Tag)



Overview

Quantity:	250 µg
Target:	EXD2
Protein Characteristics:	AA 1-650
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This EXD2 protein is labelled with Strep Tag.
Application:	ELISA, SDS-PAGE (SDS), Western Blotting (WB)

Product Details

Brand:	AliCE®
Sequence:	MSRQNLVALT VTTLLGVAMG GFVLWKGIQR RWSKTSRVMQ QQPQQPQQPQ QPQPQPQPQP
	QPQPEHPQPQ QQVPGGREWP PPEDDQLPFG ALRAPRASWE ERILQAEVVT VSQEAEWNQI
	QPFLKRELED FPVLGIDCEW VNLEGKASPL SLLQMASPSG FCALVRLPRL IYGGRTLPRT
	LLDILADGAI LKVGVGCSED ANKLLQDYGL IVRGCLDLRY LAMKQGNNIL CNGLSLKSLA
	ETILNFPLDK SLLLRCSNWD AENLTEDQVT YAARDAQISV ALFLHLLGYP FSRDSYEEES
	TDQINWQKAL ERCRNMVDIP FRSKGLGRLV EEVNGEALES QLKPRNRKAK TDRMVPGNNQ
	GRDPRKHKRK PLGVGYSARK SPLYDNCFLQ APDGQPLCTC DRRKAQWYLD KGIGELVSKE
	PFVVRLQFEP AGRPESPGDY YLMVKENLCV VCGKTDTYIR KNIIPHEYRK HFPIEMKDHN
	SHDVLLLCTS CHAISNYYDN HLKQQLAKEF QAPIGSEEGL RLLEDLERRQ VRSGARALLN
	AESLPAHRKE ELLHALREFY NTDIITEEML HEAASLETRI YNESYIPHGL KVVQRHTEGG
	LRSLMQLESR WRQHFLDSMQ PKHLPQQWSV DHNHQKLLRK YGDDLPIKLS

Order at www.antibodies-online.com | www.antikoerper-online.de | www.anticorps-enligne.fr | www.antibodies-online.cn International: +49 (0)241 95 163 153 | USA & Canada: +1 877 302 8632 | support@antibodies-online.com Page 1/4 | Product datasheet for ABIN3136735 | 02/26/2025 | Copyright antibodies-online. All rights reserved. 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 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 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).

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Product Details

Grade:

custom-made

Target Details

Target:	EXD2
Alternative Name:	Exd2 (EXD2 Products)
Background:	Exonuclease 3'-5' domain-containing protein 2 (EC 3.1.11.1) (3'-5' exoribonuclease EXD2) (EC
	3.1.13) (Exonuclease 3'-5' domain-like-containing protein 2),FUNCTION: Exonuclease that has
	both 3'-5' exoribonuclease and exodeoxyribonuclease activities, depending on the divalent
	metal cation used as cofactor. In presence of Mg(2+), only shows 3'-5' exoribonuclease activity
	while it shows both exoribonuclease and exodeoxyribonuclease activities in presence of
	Mn(2+). Acts as an exoribonuclease in mitochondrion, possibly by regulating ATP production
	and mitochondrial translation. Also involved in the response to DNA damage. Acts as 3'-5'
	exodeoxyribonuclease for double-strand breaks resection and efficient homologous
	recombination. Plays a key role in controlling the initial steps of chromosomal break repair, it is
	recruited to chromatin in a damage-dependent manner and functionally interacts with the MRN
	complex to accelerate resection through its 3'-5' exonuclease activity, which efficiently
	processes double-stranded DNA substrates containing nicks. Also involved in response to
	replicative stress: recruited to stalled forks and is required to stabilize and restart stalled
	replication forks by restraining excessive fork regression, thereby suppressing their
	degradation. {ECO:0000250 UniProtKB:Q9NVH0}.
Molecular Weight:	74.3 kDa
UniProt:	Q8VEG4
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

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Application Details	
	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
Format: Buffer:	Liquid The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein.
	The buffer composition is at the discretion of the manufacturer.
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.
Buffer: Handling Advice:	The buffer composition is at the discretion of the manufacturer. Standard Storage Buffer: PBS pH 7.4, 10 % Glycerol Might differ depending on protein. Avoid repeated freeze-thaw cycles.