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Datasheet for ABIN3092510 EXD1 Protein (AA 1-514) (Strep Tag)

Image



Overview

Quantity:	1 mg
Target:	EXD1
Protein Characteristics:	AA 1-514
Origin:	Human
Source:	Tobacco (Nicotiana tabacum)
Protein Type:	Recombinant
Purification tag / Conjugate:	This EXD1 protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Sequence:	MEDSEFLAYV ELLDEVEQGS VRAKASSVSL HAERTWMEKM KVEDLNVCEP ASPAPEAPAT
	SLLNDLKYSP SEEEEVTYTV INQFQQKFGA AILHIKKQNV LSVAAEGANV CRHGKLCWLQ
	VATNCRVYLF DIFLLGSRAF HNGLQMILED KRILKVIHDC RWLSDCLSHQ YGILLNNVFD
	TQVADVLQFS METGGYLPNC ITTLQESLIK HLQVAPKYLS FLEKRQKLIQ ENPEVWFIRP
	VSPSLLKILA LEATYLLPLR LALLDEMMSD LTTLVDGYLN TYREGSADRL GGTEPTCMEL
	PEELLQLKDF QKQRREKAAR EYRVNAQGLL IRTVLQPKKL VTETAGKEEK VKGFLFGKNF
	RIDKAPSFTS QDFHGDVNLL KEESLNKQAT NPQHLPPTEE GETSEDSSNK LICTKSKGSE
	DQRITQKEHF MTPKHEFQAS LSLKEETEQL LMVENKEDLK CTKQAVSMSS FPQETRVSPS
	DTFYPIRKTV VSTLPPCPAL EKIDSWISPF LNLP
	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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Product Details

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.
- 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

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Western blot.>80 % as determined by SDS PAGE, Size Exclusion Chromatography and Western Blot.Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg)Crystallography gradeEXD1EXD1 (EXD1 Products)
Low Endotoxin less than 1 EU/mg (< 0.1 ng/mg) Crystallography grade EXD1
Crystallography grade EXD1
EXD1
EXD1 (EXD1 Products)
PiRNA biogenesis protein EXD1 (Exonuclease 3'-5' domain-containing protein 1) (Exonuclease 3'-5' domain-like-containing protein 1) (Inactive exonuclease EXD1),FUNCTION: RNA-binding component of the PET complex, a multiprotein complex required for the processing of piRNAs during spermatogenesis. The piRNA metabolic process mediates the repression of transposable elements during meiosis by forming complexes composed of piRNAs and Piwi proteins and governs the methylation and subsequent repression of transposable elements, preventing their mobilization, which is essential for the germline integrity (By similarity). The PET complex is required during the secondary piRNAs metabolic process for the PIWIL2 slicing triggered loading of PIWIL4 piRNAs. In the PET complex, EXD1 probably acts as an RNA adapter. EXD1 is an inactive exonuclease (By similarity). {ECO:0000250 UniProtKB:H9IUR0, ECO:0000250 UniProtKB:Q8CDF7}.
58.3 kDa
Q8NHP7
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.
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	
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	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

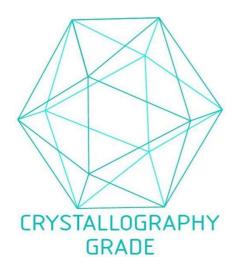


Image 1. "Crystallography Grade" protein due to multi-step, protein-specific purification process