Datasheet for ABIN3135853

DSTYK Protein (AA 1-927) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	DSTYK
Protein Characteristics:	AA 1-927
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This DSTYK protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	MEADGQSWAG ESVSGPGPGG GGMIRELCRG FSRYRRYLGR LRQNLRETQK FFRDIKCSHS HSCPSSPAGG GAAELGPAGD VAEAPLPAGQ LSCISFPPME ETYLQQLVDR LPCILILGQD CNAKCQLLNL LLGVQVLPTL KLDSDESCKL RRLRFTYGTR TRVSLALPGQ YELVHTLASH QDNWETIPEE DLEVQEDSED AAHVLADLEV TMHHALLQEV DIVVAPCPSH RPSVDVLSDL ANDFLPVITY ALHKDELSER GEQELREVRQ YFSFPMFFFK VPKLEIISSS SGRAESERSP LYGQLVDLGY LSSSHRNCVP SDQDCKAQSM LVEQSEKLKQ LSTFSHQLLQ NRLVDAAKAL NVVHSHCLDI FINQAFDMQR DLQITPKRLE YTRKKENELY ESLMNIANRK QEEMKDMIVE TLNTMKEELL DDAANMEFKD VIVPENGETI GTREIKSCIR QIQELIISRL NQAVANKLIS SVDYLRESFV GTLERCLQSL EKSQDVSVHI TSNYLKQILN AAYHVEVTFH SGSSVTRMLW EQIKQIIQRI TWVNPPTITL EWKRKVAQEA IDSLSASKLA KSICSQFRTR LNSSHEAFAA SLRQLEAGHS GRLEKTEDLW LKVRKDHAPR LARLSLESRS LQDVLLHRKP KLGQELGRGQ

YGVVYLCDNW GGHFPCALKS VVPPDEKHWN DLALEFHYMR SLPKHERLVD LHGSVIDYNY GGGSSVAVLL IMERLHRDLY TGLKAGLTLE TRLQIALDVV EGIRFLHSQG LVHRDIKLKN VLLDKQNRAK ITDLGFCKPE AMMSGSIVGT PIHMAPELFT GKYDNSVDVY AFGILFWYIC SGSIKLPEAF ERCASKDHLW NNVRRGTRPE RLPVFDEECW QLMEACWDGD PLKRPLLGIV QPMLRSIMDR LCKCSSEQPN RGLDDST

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 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.

Product Details

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).
Grade:	custom-made

Target Details

Target:	DSTYK
Alternative Name:	Dstyk (DSTYK Products)
Background:	Dual serine/threonine and tyrosine protein kinase (EC 2.7.12.1) (Dusty protein kinase) (Dusty PK) (Receptor-interacting serine/threonine-protein kinase 5),FUNCTION: Acts as a positive regulator of ERK phosphorylation downstream of fibroblast growth factor-receptor activation. Involved in the regulation of both caspase-dependent apoptosis and caspase-independent cell death. In the skin, it plays a predominant role in suppressing caspase-dependent apoptosis in response to UV stress in a range of dermal cell types. {ECO:0000250|UniProtKB:Q6XUX3}.
Molecular Weight:	104.9 kDa
UniProt:	Q6XUX1

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!

Application Details

Restrictions:	For Research Use only

Handling

Format:	Liquid
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.**
Handling Advice:	Avoid repeated freeze-thaw cycles.
Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months