Datasheet for ABIN3135668

PDS5A Protein (AA 1-1332) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	PDS5A
Protein Characteristics:	AA 1-1332
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PDS5A protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MDFTQPKPAT ALCGVVSADG KIAYPPGVKE ITDKITTDEM IKRLKMVVKT FMDMDQDSED EKQQYLPLAL HLASEFFLRN PNKDVRLLVA CCLADIFRIY APEAPYTSHD KLKDIFLFIT RQLKGLEDTK SPQFNRYFYL LENLAWVKSY NICFELEDCN EIFIQLFRTL FSVINNSHNT KVQMHMLDLM SSIIMEGDGV TQELLDSILI NLIPAHKNLN KQSFDLAKVL LKRTVQTIEA CIANFFNQVL VLGRSSVSDL SEHVFDLIQE LFAIDPQLLL SVMPQLEFKL KSNDGEERLA VVRLLAKLFG SKDSDLATQN RPLWQCFLGR FNDIHVPVRL ESVKFASHCL MNHPDLAKDL TEYLKVRSHD PEEAIRHDVI VTIITAAKRD LALVNDQLLG FVRERTLDKR WRVRKEAMMG LAQLYKKYCL HGEAGKEAAE KVSWIKDKLL HIYYQNSIDD KLLVEKIFAQ YLVPHNLETE ERMKCLYYLY ASLDPNAVKA LNEMWKCQNM LRSHVRELLD LHKQPTSEAN CSAMFGKLMT IAKNLPDPGK AQDFVKKFNQ VLGDDEKLRS QLELLISPTC SCKQADVCVR EIARKLANPK QPTNPFLEMV KFLLERIAPV HIDSEAISAL VKLMNKSIEG TADDEEEGVS PDSAIRSGLE

LLKVLSFTHP TSFHSAETYE SLLQCLRMED DKVAEAAIQI FRNTGHKIET DLPQIRSTLI PILHQKAKRG TPHQAKQAVH CIHAIFSNKE VQLAQIFEPL SRSLNADVPE QLITPLVSLG HISMLAPDQF ASPMKSVVAN FIVKDLLMND RSTGEKNGKL WSPDEEVSPE VLAKVYLLRL LVRWLLGMKN NQSKSANSTL RLLSAMLVSE GDLTEQKRIS KSDMSRLRLA AGSAIMKLAQ EPCYHEIITP EQFQLCALVI NDECYQVRQI FAQKLHKALV KLLLPLEYMA IFALCAKDPV KERRAHARQC LLKNISIRRE YIKQNPMATE KLLSLLPEYV VPYMIHLLAH DPDFTRSQDV DQLRDIKECL WFMLEVLMTK NENNSHAFMK KMAENIKLTR DAQSPDESKT NEKLYTVCDV ALCVINSKSA LCNADSPKDP VLPMKFFTQP EKDFCNDKSY ISEETRVLLL TGKPKPTGVL GTVNKPLSAT GRKPYVRSAG TETGSNINAN SELSPSAGSR SREQSSEASE TGVSENEENP VRIISVTPVK NIDTVKNKEI NSDQSTQGNI SSDRGKKRIV TAAGAENIQK PDEKVDESGP PAPSKPRRGR RPKSESQGNA TKNDDLNKPV SKGRKRAAGS QESLEAGNAK APKLQDGAKK AVPAERQIDL QR

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

Product Details

	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).
Grade:	custom-made

Target Details

Target:	PDS5A
Alternative Name:	Pds5a (PDS5A Products)
Background:	Sister chromatid cohesion protein PDS5 homolog A,FUNCTION: Probable regulator of sister chromatid cohesion in mitosis which may stabilize cohesin complex association with chromatin. May couple sister chromatid cohesion during mitosis to DNA replication. Cohesion ensures that chromosome partitioning is accurate in both meiotic and mitotic cells and plays an important role in DNA repair (By similarity). {ECO:0000250}.
Molecular Weight:	150.3 kDa
UniProt:	Q6A026

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.

Application Details

	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

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