Datasheet for ABIN3094452

PDS5B Protein (AA 1-1447) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	PDS5B
Protein Characteristics:	AA 1-1447
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PDS5B protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MAHSKTRTND GKITYPPGVK EISDKISKEE MVRRLKMVVK TFMDMDQDSE EEKELYLNLA LHLASDFFLK HPDKDVRLLV ACCLADIFRI YAPEAPYTSP DKLKDIFMFI TRQLKGLEDT KSPQFNRYFY LLENIAWVKS YNICFELEDS NEIFTQLYRT LFSVINNGHN QKVHMHMVDL MSSIICEGDT VSQELLDTVL VNLVPAHKNL NKQAYDLAKA LLKRTAQAIE PYITNFFNQV LMLGKTSISD LSEHVFDLIL ELYNIDSHLL LSVLPQLEFK LKSNDNEERL QVVKLLAKMF GAKDSELASQ NKPLWQCYLG RFNDIHVPIR LECVKFASHC LMNHPDLAKD LTEYLKVRSH DPEEAIRHDV IVSIVTAAKK DILLVNDHLL NFVRERTLDK RWRVRKEAMM GLAQIYKKYA LQSAAGKDAA KQIAWIKDKL LHIYYQNSID DRLLVERIFA QYMVPHNLET TERMKCLYYL YATLDLNAVK ALNEMWKCQN LLRHQVKDLL DLIKQPKTDA SVKAIFSKVM VITRNLPDPG KAQDFMKKFT QVLEDDEKIR KQLEVLVSPT CSCKQAEGCV REITKKLGNP KQPTNPFLEM IKFLLERIAP VHIDTESISA LIKQVNKSID GTADDEDEGV PTDQAIRAGL ELLKVLSFTH PISFHSAETF

ESLLACLKMD DEKVAEAALQ IFKNTGSKIE EDFPHIRSAL LPVLHHKSKK GPPRQAKYAI HCIHAIFSSK ETQFAQIFEP LHKSLDPSNL EHLITPLVTI GHIALLAPDQ FAAPLKSLVA TFIVKDLLMN DRLPGKKTTK LWVPDEEVSP ETMVKIQAIK MMVRWLLGMK NNHSKSGTST LRLLTTILHS DGDLTEQGKI SKPDMSRLRL AAGSAIVKLA QEPCYHEIIT LEQYQLCALA INDECYQVRQ VFAQKLHKGL SRLRLPLEYM AICALCAKDP VKERRAHARQ CLVKNINVRR EYLKQHAAVS EKLLSLLPEY VVPYTIHLLA HDPDYVKVQD IEQLKDVKEC LWFVLEILMA KNENNSHAFI RKMVENIKQT KDAQGPDDAK MNEKLYTVCD VAMNIIMSKS TTYSLESPKD PVLPARFFTQ PDKNFSNTKN YLPPEMKSFF TPGKPKTTNV LGAVNKPLSS AGKQSQTKSS RMETVSNASS SSNPSSPGRI KGRLDSSEMD HSENEDYTMS SPLPGKKSDK RDDSDLVRSE LEKPRGRKKT PVTEQEEKLG MDDLTKLVQE QKPKGSQRSR KRGHTASESD EQQWPEEKRL KEDILENEDE QNSPPKKGKR GRPPKPLGGG TPKEEPTMKT SKKGSKKKSG PPAPEEEEEE ERQSGNTEQK SKSKQHRVSR RAQQRAESPE SSAIESTQST PQKGRGRPSK TPSPSQPKKN VRVGRSKQAA TKENDSSEEV DVFQGSSPVD DIPQEETEEE EVSTVNVRRR SAKRERR

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

Product 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!

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:	PDS5B
Alternative Name:	PDS5B (PDS5B Products)
Background:	Sister chromatid cohesion protein PDS5 homolog B (Androgen-induced proliferation inhibitor) (Androgen-induced prostate proliferative shutoff-associated protein AS3),FUNCTION: 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. Plays a role in androgen-induced proliferative arrest in prostate cells. {ECO:0000269|PubMed:10963680, ECO:0000269|PubMed:15855230, ECO:0000269|PubMed:19696148}.
Molecular Weight:	164.7 kDa
UniProt:	Q9NTI5

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.

Application Details

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!
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