Datasheet for ABIN3090005

BRDT Protein (AA 1-947) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	BRDT
Protein Characteristics:	AA 1-947
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This BRDT protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MSLPSRQTAI IVNPPPPEYI NTKKNGRLTN QLQYLQKVVL KDLWKHSFSW PFQRPVDAVK LQLPDYYTII KNPMDLNTIK KRLENKYYAK ASECIEDFNT MFSNCYLYNK PGDDIVLMAQ ALEKLFMQKL SQMPQEEQVV GVKERIKKGT QQNIAVSSAK EKSSPSATEK VFKQQEIPSV FPKTSISPLN VVQGASVNSS SQTAAQVTKG VKRKADTTTP ATSAVKASSE FSPTFTEKSV ALPPIKENMP KNVLPDSQQQ YNVVKTVKVT EQLRHCSEIL KEMLAKKHFS YAWPFYNPVD VNALGLHNYY DVVKNPMDLG TIKEKMDNQE YKDAYKFAAD VRLMFMNCYK YNPPDHEVVT MARMLQDVFE THFSKIPIEP VESMPLCYIK TDITETTGRE NTNEASSEGN SSDDSEDERV KRLAKLQEQL KAVHQQLQVL SQVPFRKLNK KKEKSKKEKK KEKVNNSNEN PRKMCEQMRL KEKSKRNQPK KRKQQFIGLK SEDEDNAKPM NYDEKRQLSL NINKLPGDKL GRVVHIIQSR EPSLSNSNPD EIEIDFETLK ASTLRELEKY VSACLRKRPL KPPAKKIMMS KEELHSQKKQ ELEKRLLDVN NQLNSRKRQT KSDKTQPSKA VENVSRLSES SSSSSSSSES ESSSSDLSSS

DSSDSESEMF PKFTEVKPND SPSKENVKKM KNECIPPEGR TGVTQIGYCV QDTTSANTTL VHQTTPSHVM PPNHHQLAFN YQELEHLQTV KNISPLQILP PSGDSEQLSN GITVMHPSGD SDTTMLESEC QAPVQKDIKI KNADSWKSLG KPVKPSGVMK SSDELFNQFR KAAIEKEVKA RTQELIRKHL EQNTKELKAS QENQRDLGNG LTVESFSNKI QNKCSGEEQK EHQQSSEAQD KSKLWLLKDR DLARQKEQER RRREAMVGTI DMTLQSDIMT MFENNFD

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:	BRDT
Alternative Name:	BRDT (BRDT Products)
Background:	Bromodomain testis-specific protein (Cancer/testis antigen 9) (CT9) (RING3-like protein),FUNCTION: Testis-specific chromatin protein that specifically binds histone H4 acetylated at 'Lys-5' and 'Lys-8' (H4K5ac and H4K8ac, respectively) and plays a key role in spermatogenesis (PubMed:22464331, PubMed:22901802). Required in late pachytene spermatocytes: plays a role in meiotic and post-meiotic cells by binding to acetylated histones at the promoter of specific meiotic and post-meiotic genes, facilitating their activation at the appropriate time (PubMed:22901802). In the post-meiotic phase of spermatogenesis, binds to hyperacetylated histones and participates in their general removal from DNA (PubMed:22901802). Also recognizes and binds a subset of butyrylated histones: able to bind histone H4 butyrylated at 'Lys-8' (H4K8ac), while it is not able to bind H4 butyrylated at 'Lys-5' (H4K5ac) (By similarity). Also acts as a component of the splicing machinery in pachytene spermatocytes and round spermatids and participates in 3'-UTR truncation of specific mRNAs in post-meiotic spermatids (By similarity). Required for chromocenter organization, a structure comprised of peri-centromeric heterochromatin. {ECO:0000250|UniProtKB:Q91Y44, ECO:0000269|PubMed:15647849, ECO:0000269|PubMed:22464331, ECO:0000269|PubMed:22901802, ECO:0000269|PubMed:9367677}.
Molecular Weight:	108.0 kDa
UniProt:	Q58F21

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