Datasheet for ABIN3092529

FANCA Protein (AA 1-1455) (Strep Tag)

Go to Product page

Overview

Quantity:	250 µg
Target:	FANCA
Protein Characteristics:	AA 1-1455
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This FANCA protein is labelled with Strep Tag.
Application:	ELISA, Western Blotting (WB), SDS-PAGE (SDS)

Product Details

Brand:	AliCE®
Sequence:	MSDSWVPNSA SGQDPGGRRR AWAELLAGRV KREKYNPERA QKLKESAVRL LRSHQDLNAL LLEVEGPLCK KLSLSKVIDC DSSEAYANHS SSFIGSALQD QASRLGVPVG ILSAGMVASS VGQICTAPAE TSHPVLLTVE QRKKLSSLLE FAQYLLAHSM FSRLSFCQEL WKIQSSLLLE AVWHLHVQGI VSLQELLESH PDMHAVGSWL FRNLCCLCEQ MEASCQHADV ARAMLSDFVQ MFVLRGFQKN SDLRRTVEPE KMPQVTVDVL QRMLIFALDA LAAGVQEESS THKIVRCWFG VFSGHTLGSV ISTDPLKRFF SHTLTQILTH SPVLKASDAV QMQREWSFAR THPLLTSLYR RLFVMLSAEE LVGHLQEVLE TQEVHWQRVL SFVSALVVCF PEAQQLLEDW VARLMAQAFE SCQLDSMVTA FLVVRQAALE GPSAFLSYAD WFKASFGSTR GYHGCSKKAL VFLFTFLSEL VPFESPRYLQ VHILHPPLVP GKYRSLLTDY ISLAKTRLAD LKVSIENMGL YEDLSSAGDI TEPHSQALQD VEKAIMVFEH TGNIPVTVME ASIFRRPYYV SHFLPALLTP RVLPKVPDSR VAFIESLKRA DKIPPSLYST YCQACSAAEE KPEDAALGVR AEPNSAEEPL GQLTAALGEL

RASMTDPSQR DVISAQVAVI SERLRAVLGH NEDDSSVEIS KIQLSINTPR LEPREHMAVD LLLTSFCQNL MAASSVAPPE RQGPWAALFV RTMCGRVLPA VLTRLCQLLR HQGPSLSAPH VLGLAALAVH LGESRSALPE VDVGPPAPGA GLPVPALFDS LLTCRTRDSL FFCLKFCTAA ISYSLCKFSS QSRDTLCSCL SPGLIKKFQF LMFRLFSEAR QPLSEEDVAS LSWRPLHLPS ADWQRAALSL WTHRTFREVL KEEDVHLTYQ DWLHLELEIQ PEADALSDTE RQDFHQWAIH EHFLPESSAS GGCDGDLQAA CTILVNALMD FHQSSRSYDH SENSDLVFGG RTGNEDIISR LQEMVADLEL QQDLIVPLGH TPSQEHFLFE IFRRRLQALT SGWSVAASLQ RQRELLMYKR ILLRLPSSVL CGSSFQAEQP ITARCEQFFH LVNSEMRNFC SHGGALTQDI TAHFFRGLLN ACLRSRDPSL MVDFILAKCQ TKCPLILTSA LVWWPSLEPV LLCRWRRHCQ SPLPRELQKL QEGRQFASDF LSPEAASPAP NPDWLSAAAL HFAIQQVREE NIRKQLKKLD CEREELLVFL FFFSLMGLLS SHLTSNSTTD LPKAFHVCAA ILECLEKRKI SWLALFQLTE SDLRLGRLLL RVAPDQHTRL LPFAFYSLLS YFHEDAAIRE EAFLHVAVDM YLKLVQLFVA GDTSTVSPPA GRSLELKGQG NPVELITKAR LFLLQLIPRC PKKSFSHVAE LLADRGDCDP EVSAALQSRQ QAAPDADLSQ EPHLF

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

Product Details

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.

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:	FANCA
Alternative Name:	FANCA (FANCA Products)
Background:	Fanconi anemia group A protein (Protein FACA),FUNCTION: DNA repair protein that may operate in a postreplication repair or a cell cycle checkpoint function. May be involved in interstrand DNA cross-link repair and in the maintenance of normal chromosome stability.
Molecular Weight:	162.8 kDa
UniProt:	O15360
Pathways:	DNA Damage Repair

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

Application Details

	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