Datasheet for ABIN3130884

Phospholipase C beta 2 Protein (AA 1-1181) (Strep Tag)

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Overview

Quantity:	250 µg
Target:	Phospholipase C beta 2 (PLCb2)
Protein Characteristics:	AA 1-1181
Origin:	Mouse
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This Phospholipase C beta 2 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	MSLLNPVLLP PNVKAYLSQG ERFIKWDDET SIASPVILRV DPKGYYLYWT YQNQEMEFLD VTSIRDTRFG KFAKIPKSQK LREVFNMDFP DNHFLLKTLT VVSGPDMVDL TFYNFVSYKE NVGKDWAEDV LALAKHPMTV NAPRSTFLDK ILVKLKMQLN PEGKIPVKNF FQMFPADRKR VEAALGACHL AKGKNDAINP EDFPESVYKS FLMSLCPRPE IDEIFTSYHS KAKPYMTKEH LTKFINQKQR DPRLNSLLFP PARPEQVQVL IDKYEPSGIN VQRGQLSPEG MVWFLCGPEN SVLAHDTLLI HQDMTQPLNH YFINSSHNTY LTAGQFSGLS SAEMYRQVLL SGCRCVELDC WKGKPPDEEP IITHGFTMTT DILFKEAIEA IAESAFKTSP YPVILSFENH VDSPRQQAKM AEYCRSMFGE TLLTDPLENF PLKPGIPLPS PEDLRGKILI KNKKNQFSGP ASPSKKPGGV AEGSLPSSVP VEEDTGWTAE DRTEVEEEEV VEEEEEEESG NLDEEEIKKM QSDEGTAGLE VTAYEEMSSL VNYIQPTKFI SFEFSAQKNR SYVVSSFTEL KAYELLSKAS MQFVDYNKRQ MSRVYPKGTR MDSSNYMPQM FWNAGCQMVA LNFQTMDLPM QQNMALFEFN GQSGYLLKHE

FMRRLDKQFN PFSVDRIDVV VATTLSITII SGQFLSERSV RTYVEVELFG LPGDPKRRYR TKLSPTANSI NPVWKEEPFI FEKILMPELA SLRIAVMEEG SKFLGHRIIP INALHSGYHH LCLRSESNMA LTMPALFVFL EMKDYIPDTW ADLTVALANP IKYFNAQDKK SVKLKGVTGS LPEKLFSGTP VASQSNGAPV SAGNGSTAPG TKATGEEATK EVTEPQTASL EELRELKGVV KLQRRHEKEL RELERRGARR WEELLQRGAA QLAELQTQAA GCKLRPGKGS RKKRTLPCEE TVVAPSEPHD RADPRVQELK DRLEQELQQQ GEEQYRSVLK RKEQHVTEQI AKMMELAREK QAAELKTFKE TSETDTKEMK KKLEAKRLER IQAMTKVTTD KVAQERLKRE INNSHIQEVV QAVKQMTETL ERHQEKLEER QTACLEQIQA MEKQFQEKAL AEYEAKMKGL EAEVKESVRA YFKDCFPTEA EDKPERSCEA SEESCPQEPL VSKADTQESR L

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!

Product Details

	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:	Phospholipase C beta 2 (PLCb2)
Alternative Name:	Plcb2 (PLCb2 Products)
Background:	1-phosphatidylinositol 4,5-bisphosphate phosphodiesterase beta-2 (EC 3.1.4.11) (Phosphoinositide phospholipase C-beta-2) (Phospholipase C-beta-2) (PLC-beta-2),FUNCTION: The production of the second messenger molecules diacylglycerol (DAG) and inositol 1,4,5-trisphosphate (IP3) is mediated by activated phosphatidylinositol-specific phospholipase C enzymes. {ECO:0000250|UniProtKB:Q00722}.
Molecular Weight:	134.5 kDa
UniProt:	A3KGF7
Pathways:	WNT Signaling, Thyroid Hormone Synthesis, CXCR4-mediated Signaling Events, G-protein mediated Events, Thromboxane A2 Receptor Signaling

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

Application Details

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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