

Datasheet for ABIN3105632

PANX1 Protein (AA 1-426) (Strep Tag)



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Overview

Quantity:	250 µg
Target:	PANX1
Protein Characteristics:	AA 1-426
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This PANX1 protein is labelled with Strep Tag.
Application:	Western Blotting (WB), SDS-PAGE (SDS), ELISA

Product Details

Brand:	AliCE®
Sequence:	<p>MAIAQLATEY VFSDFLLKEP TEPKFKGLRL ELAVDKMVTC IAVGLPLLLI SLAFAQEISI GTQISCFSPS SFSWRQAAV DSVCWAAVQQ KNSLQSESGN LPLWLHKFFP YILLFALL YLPPLFWRFA AAPHCSDLK FIMEELDKVY NRAIKAAKSA RDLDMRDGAC SVPGV TENLG QSLWEVSESH FKYPIVEQYL KTKKNSNNLI IKYISCRLLT LIIILLACIY LGYYFSLSSL SDEFVCSIKS GILRNDSTVP DQFQCKLIAV GIFQLLSVIN LVVVVLLAPV VVYTLFVPFR QKTDVLKVYE ILPTFDVLHF KSEGYNDLSL YNLFLEENIS EVKSYKCLKV LENIKSSGQG IDPMLLLTNL GMIKMDVVDG KTPMSAEMRE EQGNQTAE LQ GMNIDSETKA NNGEKNARQR LLDSSC</p> <p>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.</p>
Characteristics:	Key Benefits:

Product Details

- 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.

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:	PANX1
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Target Details

Alternative Name: PANX1 ([PANX1 Products](#))

Background: Pannexin-1 (PANX1) [Cleaved into: Caspase-activated pannexin-1 (Caspase-activated PANX1)], FUNCTION: Ion channel involved in a variety of physiological functions such as blood pressure regulation, apoptotic cell clearance and oogenesis (PubMed:16908669, PubMed:20829356, PubMed:30918116, PubMed:15304325, PubMed:20944749). Forms anion-selective channels with relatively low conductance and an order of permeabilities: nitrate>iodide>chloride>>aspartate=glutamate=gluconate (By similarity). Can release ATP upon activation through phosphorylation or cleavage at C-terminus (PubMed:32238926). May play a role as a Ca(2+)-leak channel to regulate ER Ca(2+) homeostasis (PubMed:16908669). {ECO:0000250|UniProtKB:Q9JIP4, ECO:0000269|PubMed:15304325, ECO:0000269|PubMed:16908669, ECO:0000269|PubMed:20944749, ECO:0000269|PubMed:32238926}., FUNCTION: [Caspase-activated pannexin-1]: During apoptosis, the C terminal tail is cleaved by caspases, which opens the main pore acting as a large-pore ATP efflux channel with a broad distribution, which allows the regulated release of molecules and ions smaller than 1 kDa, such as nucleotides ATP and UTP, and selective plasma membrane permeability to attract phagocytes that engulf the dying cells. {ECO:0000269|PubMed:20944749, ECO:0000269|PubMed:32238926, ECO:0000269|PubMed:32494015}.

Molecular Weight: 48.1 kDa

UniProt: [Q96RD7](#)

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 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

Application Details

	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