

Datasheet for ABIN3117487 NOX5 Protein (AA 1-765) (Strep Tag)



Overview

Quantity:	250 µg
Target:	NOX5
Protein Characteristics:	AA 1-765
Origin:	Human
Source:	Cell-free protein synthesis (CFPS)
Protein Type:	Recombinant
Purification tag / Conjugate:	This NOX5 protein is labelled with Strep Tag.
Application:	SDS-PAGE (SDS), Western Blotting (WB), ELISA

Product Details

Brand:	AliCE®
Sequence:	MNTSGDPAQT GPEGCRGTMS AEEDARWLRW VTQQFKTIAG EDGEISLQEF KAALHVKESF
	FAERFFALFD SDRSGTITLQ ELQEALTLLI HGSPMDKLKF LFQVYDIDVC ARQGASAGTE
	WGAGAGPHWA SSPLGTGSGS IDPDELRTVL QSCLRESAIS LPDEKLDQLT LALFESADAD
	GNGAITFEEL RDELQRFPGV MENLTISAAH WLTAPAPRPR PRRPRQLTRA YWHNHRSQLF
	CLATYAGLHV LLFGLAASAH RDLGASVMVA KGCGQCLNFD CSFIAVLMLR RCLTWLRATW
	LAQVLPLDQN IQFHQLMGYV VVGLSLVHTV AHTVNFVLQA QAEASPFQFW ELLLTTRPGI
	GWVHGSASPT GVALLLLLL MFICSSSCIR RSGHFEVFYW THLSYLLVWL LLIFHGPNFW
	KWLLVPGILF FLEKAIGLAV SRMAAVCIME VNLLPSKVTH LLIKRPPFFH YRPGDYLYLN
	IPTIARYEWH PFTISSAPEQ KDTIWLHIRS QGQWTNRLYE SFKASDPLGR GSKRLSRSVT
	MRKSQRSSKG SEILLEKHKF CNIKCYIDGP YGTPTRRIFA SEHAVLIGAG IGITPFASIL
	QSIMYRHQKR KHTCPSCQHS WIEGVQDNMK LHKVDFIWIN RDQRSFEWFV SLLTKLEMDQ

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AEEAQYGRFL ELHMYMTSAL GKNDMKAIGL QMALDLLANK EKKDSITGLQ TRTQPGRPDW SKVFQKVAAE KKGKVQVFFC GSPALAKVLK GHCEKFGFRF FQENF

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 posttranslational 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®).

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Product Details

 Purity:
 > 70-80 % as determined by SDS PAGE, Western Blot and analytical SEC (HPLC).

 Grade:
 custom-made

Target Details

Target:	NOX5
Alternative Name:	NOX5 (NOX5 Products)
Background:	NADPH oxidase 5 (EC 1.6.3),FUNCTION: Calcium-dependent NADPH oxidase that catalyzes
	the generation of superoxide from molecular oxygen utilizing NADPH as an electron donor
	(PubMed:12686516). May play a role in cell growth and apoptosis (PubMed:12686516).
	{ECO:0000269 PubMed:12686516}., FUNCTION: [Isoform v2]: Calcium-dependent NADPH
	oxidase that catalyzes the generation of superoxide from molecular oxygen utilizing NADPH as
	an electron donor (PubMed:11483596, PubMed:14982937, PubMed:17275676,
	PubMed:21642394, PubMed:24505490, PubMed:36653838, PubMed:17587483,
	PubMed:22427510, PubMed:22387196). Also functions as a calcium-dependent proton chann
	and may regulate redox-dependent processes in lymphocytes and spermatozoa
	(PubMed:11483596). Involved in endothelial generation of reactive oxygen species (ROS),
	proliferation and angiogenesis and contribute to endothelial response to thrombin
	(PubMed:17275676). {ECO:0000269 PubMed:11483596, ECO:0000269 PubMed:14982937,
	EC0:0000269 PubMed:17275676, EC0:0000269 PubMed:17587483,
	EC0:0000269 PubMed:21642394, EC0:0000269 PubMed:22387196,
	EC0:0000269 PubMed:22427510, EC0:0000269 PubMed:24505490,
	ECO:0000269 PubMed:36653838}., FUNCTION: [Isoform v1]: Calcium-dependent NADPH
	oxidase that catalyzes the generation of superoxide from molecular oxygen utilizing NADPH a
	an electron donor. {ECO:0000269 PubMed:21319793, ECO:0000269 PubMed:22427510}.,
	FUNCTION: [Isoform v5]: Calcium-dependent NADPH oxidase that catalyzes the generation of
	superoxide from molecular oxygen utilizing NADPH as an electron donor (PubMed:17275676,
	PubMed:36653838). According to PubMed:22427510, lacks enzyme activity
	(PubMed:22427510). Involved in endothelial generation of reactive oxygen species (ROS),
	proliferation and angiogenesis and contribute to endothelial response to thrombin
	(PubMed:17275676). {ECO:0000269 PubMed:17275676, ECO:0000269 PubMed:22427510,
	ECO:0000269 PubMed:36653838}., FUNCTION: [Isoform v4]: Lacks calcium-dependent NADP
	oxidase activity. {ECO:0000269 PubMed:22427510}., FUNCTION: [Isoform v3]: Lacks calcium-
	dependent NADPH oxidase activity. {ECO:0000269 PubMed:22427510}.

Molecular Weight:

86.4 kDa

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Target Details	
UniProt:	Q96PH1
Pathways:	Proton Transport
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 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

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