

Datasheet for ABIN7554783
NOX5 Protein (AA 1-765) (His tag)



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Overview

Quantity:	1 mg
Target:	NOX5
Protein Characteristics:	AA 1-765
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NOX5 protein is labelled with His tag.

Product Details

Purpose:	Custom-made recombinant NOX5 Protein expressed in mammalian cells.
Sequence:	<p>MNTSGDPAQT GPEGCRGTMS AEEDARWLRW VTQQFKTIAG EDGEISLQEF KAALHVKESF FAERFFALFD SDRSGTITLQ ELQEALTLI HGSPMDKLKF LFQVYDIDVC ARQGASAGTE WGAGAGPHWA SSPLGTGSGS IDPDELRTVL QSCLRESAIS LPDEKLDQLT LALFESADAD GNGAITFEEL RDELQRFPGV MENLTISAAH WLTAPAPRPR PRRPRQLTRA YWHNHRSQLF CLATYAGLHV LLFGLAASAH RDLGASVMVA KGCGQCLNFD CSFIAVLMRL RCLTWLRATW LAQVLPDQN IQFHQLMGYV VVGLSLVHTV AHTVNFVLQA QAEASPFQFW ELLLTTRPGI GWVHGSASPT GVALLLLLLL MFICSSSIR RSGHFEVFW THLSYLLVWL LLIFHGPNFW KWLLVPGILF FLEKAIGLAV SRMAAVCIME VNLLPSKVTH LLIKRPFFH YRPGDYLYLN IPTIARYEWH PFTISSAPEQ KDTIWLHIRS QGQWTNRLYE SFKASDPLGR GSKRLRSVST MRKSQRSSKG SEILLEKHKF CNIKCYIDGP YGTPTRRIFA SEHAVLIGAG IGITPFASIL QSIMYRHQKR KHTCPSCQHS WIEGVQDNMK LHKVDFIWIN RDQRSFEWV SLLTKLEMDQ AEEAQYGRFL ELHMYMTSAL GKNDMKAIGL QMALDLLANK EKKDSITGLQ TRTQPGRPDW</p>

Product Details

SKVFQKVAEE KKGKVQVFFC GSPALAKVLK GHCEKFGFRF FQENF **Sequence without tag. The proposed Purification-Tag is based on experiences 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.**

Specificity: If you are looking for a specific domain and are interested in a partial protein or a different isoform, please contact us regarding an individual offer.

Characteristics: **Key Benefits:**

- Made to order protein - from design to production - by highly experienced protein experts.
- Protein expressed in mammalian cells and purified in one-step affinity chromatography
- The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.
- 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.

If you are not interested in a full length protein, please contact us for individual protein fragments.

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.

Purity: > 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, 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,

Target Details

PubMed:22427510, PubMed:22387196). Also functions as a calcium-dependent proton channel 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, ECO:0000269|PubMed:17275676, ECO:0000269|PubMed:17587483, ECO:0000269|PubMed:21642394, ECO:0000269|PubMed:22387196, ECO:0000269|PubMed:22427510, ECO: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 as 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 NADPH oxidase activity. {ECO:0000269|PubMed:22427510}., FUNCTION: [Isoform v3]: Lacks calcium-dependent NADPH oxidase activity. {ECO:0000269|PubMed:22427510}.

Molecular Weight:	86.4 kDa
UniProt:	Q96PH1
Pathways:	Proton Transport

Application Details

Application Notes:	We expect the protein to work for functional studies. As the protein has not been tested for functional studies yet we cannot offer a guarantee though.
Restrictions:	For Research Use only

Handling

Format:	Liquid
Buffer:	The buffer composition is at the discretion of the manufacturer.
Handling Advice:	Avoid repeated freeze-thaw cycles.

Handling

Storage:	-80 °C
Storage Comment:	Store at -80°C.
Expiry Date:	12 months