

Datasheet for ABIN7561506

## NADPH Oxidase 4 Protein (NOX4) (AA 1-578) (His tag)



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### Overview

Quantity:	1 mg
Target:	NADPH Oxidase 4 (NOX4)
Protein Characteristics:	AA 1-578
Origin:	Mouse
Source:	HEK-293 Cells
Protein Type:	Recombinant
Purification tag / Conjugate:	This NADPH Oxidase 4 protein is labelled with His tag.

### Product Details

Purpose:	Custom-made recombinant Nox4 Protein expressed in mammalian cells.
Sequence:	<p>MAVSWRSWLA NEGVKHLCLL IWLSLNVLLF WKTFLLYNQG PEYYYIHQML GLGLCLSRAS</p> <p>ASVLNLNCSL ILLPMCRTL AYLGRSQKVP SRTRRLLDK SKTLHITCGV TICIFSGVHV</p> <p>AAHLVNALNF SVNYSDFLE LNAARYQNED PRKLLFTTIP GLTGVCMMVV LFLMVTASTY</p> <p>AIRVSNYDIF WYTHNLFFVF YMLLLLVHVG GLLKYQTNVD THPPGCISLN QTSSQNMSIP</p> <p>DYVSEHFHGS LPRGFSKLED RYQKTLVKIC LEEPKFQAHF PQTWIIWISGP LCLYCAERLY</p> <p>RCIRSNKPVT IISVINHPSD VMELRMIKEN FKARPGQYII LHCPVSVALE NHPFTLT MCP</p> <p>TETKATFGVH FKVVGDWTER FRDLLLPSS QDSEILPFIH SRNYPKLYID GPFGSPFEES</p> <p>LNIEVSLCVA GGIGVTPFAS ILNTLLDDWK PYKLRRLYFI WVCARDIQSFQ WFADLLCVLH</p> <p>NKFWQENRPD FVNIQLYLSQ TDGIQKIIGE KYHTLNSRLF IGRPRWKLLF DEIAKCNRGK</p> <p>TVGVFCCGPS SISKTLHSLN NRNNSYGTKF EYNKESFS</p> <p><b>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</b></p>

**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:	<p>Key Benefits:</p> <ul style="list-style-type: none"><li>• Made to order protein - from design to production - by highly experienced protein experts.</li><li>• Protein expressed in mammalian cells and purified in one-step affinity chromatography</li><li>• The optimized expression system ensures reliability for intracellular, secreted and transmembrane proteins.</li><li>• State-of-the-art algorithm used for plasmid design (Gene synthesis).</li></ul> <p>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.</p> <p>If you are not interested in a full length protein, please contact us for individual protein fragments.</p> <p>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.</p>
Purity:	> 90 % as determined by Bis-Tris PAGE, anti-tag ELISA, Western Blot and analytical SEC (HPLC)
Grade:	custom-made

Target Details

Target:	NADPH Oxidase 4 (NOX4)
Alternative Name:	Nox4 ( <a href="#">NOX4 Products</a> )
Background:	<p>NADPH oxidase 4 (EC 1.6.3.1) (Kidney oxidase-1) (KOX-1) (Kidney superoxide-producing NADPH oxidase) (Renal NAD(P)H-oxidase) (Superoxide-generating NADPH oxidase 4),FUNCTION: NADPH oxidase that catalyzes predominantly the reduction of oxygen to H2O2 (By similarity). Can also catalyze to a smaller extent, the reduction of oxygen to superoxide (PubMed:10869423, PubMed:11098048, PubMed:15638999). May function as an oxygen sensor regulating the KCNK3/TASK-1 potassium channel and HIF1A activity (By similarity). May regulate insulin signaling cascade (By similarity). May play a role in apoptosis, bone resorption and lipopolysaccharide-mediated activation of NFkB (By similarity). May produce superoxide in the nucleus and play a role in regulating gene expression upon cell stimulation (By similarity). {ECO:0000250 UniProtKB:Q9NPH5, ECO:0000269 PubMed:10869423,</p>

### Target Details

	ECO:0000269 PubMed:11098048, ECO:0000269 PubMed:15638999}.
Molecular Weight:	66.5 kDa
UniProt:	<a href="#">Q9JHI8</a>
Pathways:	<a href="#">Carbohydrate Homeostasis</a> , <a href="#">Smooth Muscle Cell Migration</a>

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