NOX4 Protein, Pongo abelii (Cell-Free, His)

Cat. No.:	HY-P702388
Synonyms:	NADPH oxidase 4
Species:	Others
Source:	E. coli Cell-free
Accession:	Q5R5C5 (M1-S578)
Gene ID:	100171782
Molecular Weight:	69.7 kDa

PROPERTIES

AA Sequence

MAVSWRSWLA NEGVKHLCLF IWLSMNVLLF WKTFLLYNQG
PEYHYLHQML GLGLCLSRAS ASVLNLNCSL ILLPMCRTLL
AYLRGSQKVP SRRTRRLLDK SRTFHITCGV TICIFSGVHV
AAHLVNALNF SVNYSEDFVE LNAARYRDED PRKLLFTTVP
GLTGVCMVVV LFLMITASTY AIRVSNYDIF WYTHNLFFVF
YMLLTLHVSG GLLKYQTNLD THPPGCISLN RTSSQNISLP
EYFSEHFHEP FPEGFSKPEE FTQNTFVKIC MEEPRFQANF
PQTWLWISGP LCLYCAERLY RYIRSNKPVT IISVISHPSD
VMEIRMVKEN FKARPGQYIT LHCPSVSALE NHPFTLTMCP
TETKATFGVH LKIVGDWTER FRDLLLPPSS QDSEILPFIQ
SRNYPKLYID GPFGSPFEES LNYEVSLCVA GGIGVTPFAS
ILNTLLDDWK PYKLRRLYFI WVCRDIQSFR WFADLLCMLH
NKFWQENRPD YVNIQLYLSQ TDGIQKIIGE KYHALNSRLF
IGRPRWKLLF DEIAKYNRGK TVGVFCCGPN SLSKTLHKLS
NQINSYGTRF EYNKESFS

Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 μm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/μg, determined by LAL method.
Reconsititution	It is not recommended to reconstitute to a concentration less than 100 μg/mL in ddH_2O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background	NOX4 protein, a constitutive NADPH oxidase, functions as an intracellular superoxide generator upon complex formation with CYBA/p22phox. This enzyme plays a pivotal role in regulating signaling cascades, potentially through the inhibition of phosphatases. Additionally, NOX4 may act as an oxygen sensor, modulating the KCNK3/TASK-1 potassium channel and HIF1A activity. It is implicated in the regulation of insulin signaling cascades and may contribute to apoptosis, bone resorption, and lipolysaccharide-mediated activation of NFKB. Activated by insulin and inhibited by diphenylene iodonium, NOX4 is also responsive to plumbagin and can be activated by phorbol 12-myristate 13-acetate (PMA). These diverse regulatory functions highlight the versatile role of NOX4 in cellular processes and signaling pathways.

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