



Recombinant Human NADPH oxidase 4 (NOX4), partial

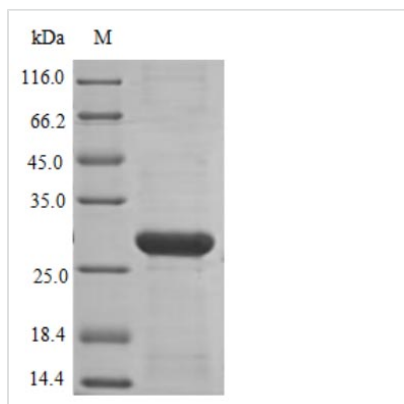
Product Code	CSB-EP015961HU1
Relevance	Constitutive NADPH oxidase which generates superoxide intracellularly upon formation of a complex with CYBA/p22phox. Regulates signaling cascades probably through phosphatases inhibition. May function as an oxygen sensor regulating the KCNK3/TASK-1 potassium channel and HIF1A activity. May regulate insulin signaling cascade. May play a role in apoptosis, bone resorption and lipopolysaccharide-mediated activation of NFκB. May produce superoxide in the nucleus and play a role in regulating gene expression upon cell stimulation. Isoform 3 is not functional. Isoform 5 and isoform 6 display reduced activity. Isoform 4: Involved in redox signaling in vascular cells. Constitutively and NADPH-dependently generates reactive oxygen species (ROS). Modulates the nuclear activation of ERK1/2 and the ELK1 transcription factor, and is capable of inducing nuclear DNA damage. Displays an increased activity relative to isoform 1.
Abbreviation	Recombinant Human NOX4 protein, partial
Storage	The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.
Uniprot No.	Q9NPH5
Product Type	Recombinant Protein
Immunogen Species	Homo sapiens (Human)
Purity	≥ 85% as determined by SDS-PAGE.
Sequence	GGLLKYQTNLDTHPPGCISLNR TSSQNI SLPEYFSEHFHEPFPEGFSKPAEFTQ HKFVKICMEEPRFQANFPQTWLWISGPLCLYCAERLYRYSNKPVTIISVMSH PSDVMEIRMVKENFKARPGQYITLHCPVSVALENHPFTLTMCPTETKATFGVH LKIVGDWTERFRDLLLPSSQDSEILPFIQSRNYPKLYIDGPFPGSPFEESLNYE
Research Area	Cardiovascular
Source	E.coli
Target Names	NOX4
Protein Names	Kidney oxidase-1 Short name:KOX-1 Kidney superoxide-producing NADPH oxidase Renal NAD(P)H-oxidase RENOX
Expression Region	210-424aa
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4°C for up to one week.
Tag Info	N-terminal 6xHis-tagged



Mol. Weight 28.8 kDa

Protein Length Partial

Image



Reconstitution

We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration) and aliquot for long-term storage at -20°C/-80°C. Our default final concentration of glycerol is 50%. Customers could use it as reference.

Shelf Life

The shelf life is related to many factors, storage state, buffer ingredients, storage temperature and the stability of the protein itself. Generally, the shelf life of liquid form is 6 months at -20°C/-80°C. The shelf life of lyophilized form is 12 months at -20°C/-80°C.