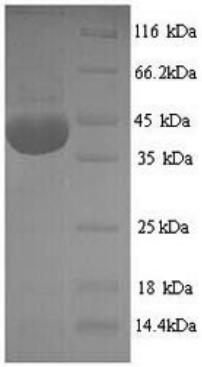
Recombinant Rat NADPH oxidase 4 (Nox4), partial

Product Code	CSB-YP015961RA
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 lipolysaccharide-mediated activation of NFKB.
Abbreviation	Recombinant Rat 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.	Q924V1
Alias	Kidney oxidase-1 ;KOX-1Kidney superoxide-producing NADPH oxidase
Product Type	Recombinant Protein
Immunogen Species	Rattus norvegicus (Rat)
Purity	Greater than 90% as determined by SDS-PAGE.
Sequence	GGLLKYQTNLDTHPPGCISLNRTPSQNMSIADYVSEHFHGSLPGGFSKLEDHY QKTLVKICLEEPKFQAHFPQTWIWISGPLCLYCAERLYRCIRSNKPVTIISVINHP SDVMELRMIKENFKARPGQYIILHCPSVSALENHPFTLTMCPTETKATFGVHFK VVGDWTERFRDLLLPPSSQDSEILPFIQSRNYPKLYIDGPFGSPFEESLNYE
Research Area	Others
Source	Yeast
Target Names	Nox4
Protein Names	Recommended name: NADPH oxidase 4 EC= 1.6.3.-Alternative name(s): Kidney oxidase-1 Short name= KOX-1 Kidney superoxide-producing NADPH oxidase
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	40.6kDa
Protein Length	Partial
Image	



(Tris-Glycine gel) Discontinuous SDS-PAGE (reduced) with 5% enrichment gel and 15% separation gel.

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

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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.