

Recombinant Rat NOX4 Protein (210-424 aa), His-B2M-tagged

Cat. No. NOX4-2200R Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Rat NOX4 Protein (210-424 aa) is produced by E. coli expression system. This protein is fused with a 6xHis-B2M tag at the N-terminal. Research Area: Cardiovascular. Protein Description: Partial.
Species	Rat
Source	E.coli
ProteinLength	210-424 aa
Description	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 NFkB.
Form	Tris-based buffer,50% glycerol
Molecular Mass	38.6 kDa
AA Sequence	GGLLKYQTNLDTHPPGCISLNRTPSQNMSIADYVSEHFHGSLPGGFSKLEDHYQKTL VKICLEEPKFQAHFPQTWIWISGPLCLYCAERLYRCIRSNKPVTIISVINHPSDVMELR MIKENFKARPGQYIILHCPSVSALENHPFTLTMCPTETKATFGVHFVGDWTERFR DLLLPPSSQDSEILPFIQSRNYPKLYIDGPFPGSPFEESLNYE

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Purity	> 90% as determined by SDS-PAGE.
Notes	Repeated freezing and thawing is not recommended. Store working aliquots at 4 centigrade for up to one week.
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 centigrade/-80 centigrade. The shelf life of lyophilized form is 12 months at -20 centigrade/-80 centigrade.
Concentration	A hardcopy of COA will be sent along with the products. Please refer to it for detailed information.

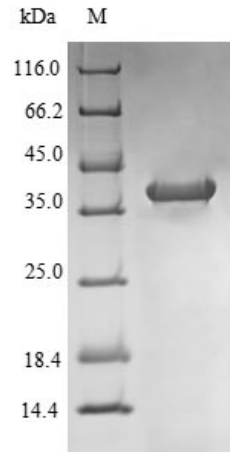
GENE INFORMATION

Gene Name	Nox4 NADPH oxidase 4 [<i>Rattus norvegicus</i>]
Official Symbol	NOX4
Synonyms	NOX4; NADPH oxidase 4; kox-1; kidney oxidase-1; kidney superoxide-producing NADPH oxidase;
Gene ID	85431
mRNA Refseq	NM_053524
Protein Refseq	NP_445976
UniProt ID	Q924V1

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

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