

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

Cat. No. NOX4-1475R Lot. No. (See product label)

SPECIFICATION

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| Product Overview | Recombinant Rat NOX4 Protein (210-424 aa) is produced by Yeast expression system. This protein is fused with a 6xHis tag at the N-terminal. Protein Description: Partial. |
| Species | Rat |
| Source | Yeast |
| 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 NFκB. |
| Form | Tris-based buffer, 50% glycerol |
| Molecular Mass | 40.6 kDa |
| AA Sequence | GGLLK YQTNLDTHPPGCISLNRTPSQNMSIADYVSEHFHGSLPGGFSKLEDHYQKTL VKICLEEPKFQAHFPQTWIWISGPLCLYCAERLYRCIRSNKPVTIISVINHPSDVMELR MIKENFKARPGQYIILHCPSVSALENHPFTLTMCPTETKATFGVHFKVVDWTERFR 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 with reconstitution instruction is sent along with the products. |

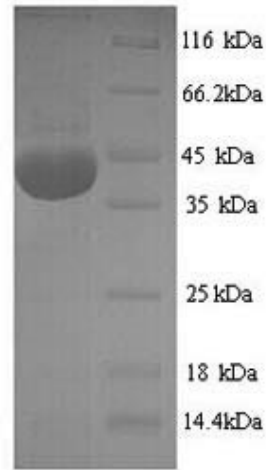
GENE INFORMATION

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|------------------------|--|
| Gene Name | Nox4 NADPH oxidase 4 [Rattus norvegicus] |
| Official Symbol | NOX4 |
| Synonyms | NOX4; NADPH oxidase 4; kox-1; kidney oxidase-1; |
| 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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