

## Recombinant Mouse Nox4 Protein, His-tagged

**Cat. No.** Nox4-1840M    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Mouse Nox4 Protein (Gly210-Ser578) with N-His tag was expressed in E. coli.
<b>Species</b>	Mouse
<b>Source</b>	E.coli
<b>ProteinLength</b>	Gly210-Ser578
<b>Description</b>	Enables protein tyrosine kinase binding activity and superoxide-generating NAD(P)H oxidase activity. Involved in several processes, including positive regulation of intracellular signal transduction; positive regulation of nitrogen compound metabolic process; and superoxide anion generation. Acts upstream of or within bone resorption; cardiac muscle cell differentiation; and cellular response to glucose stimulus. Located in several cellular components, including mitochondrion; nucleus; and perinuclear region of cytoplasm. Is expressed in embryo; heart; metanephros; renal cortex; and ventricle compact myocardium. Orthologous to human NOX4 (NADPH oxidase 4).
<b>Form</b>	Freeze-dried powder
<b>Molecular Mass</b>	Predicted Molecular Mass: 46.7 kDa Accurate Molecular Mass: 43 kDa
<b>Purity</b>	> 90%

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<b>Applications</b>	Positive Control; Immunogen; SDS-PAGE; WB.
<b>Stability</b>	The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37 centigrade for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
<b>Storage Buffer</b>	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
<b>Reconstitution</b>	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

## GENE INFORMATION

<b>Gene Name</b>	Nox4 NADPH oxidase 4 [ <i>Mus musculus</i> (house mouse) ]
<b>Official Symbol</b>	Nox4
<b>Synonyms</b>	NOX4; NADPH oxidase 4; KOX-1; kidney oxidase-1; renal NAD(P)H-oxidase; superoxide-generating NADPH oxidase 4; kidney superoxide-producing NADPH oxidase; AI648021;
<b>Gene ID</b>	50490
<b>mRNA Refseq</b>	NM_015760
<b>Protein Refseq</b>	NP_056575

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UniProt ID

Q9JHI8



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