

Recombinant Mouse Nox4 Protein, His-tagged

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

SPECIFICATION

Product Overview	Recombinant Mouse Nox4 Protein (Gly210-Ser578) with N-His tag was expressed in E. coli.
Species	Mouse
Source	E.coli
ProteinLength	Gly210-Ser578
Description	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).
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 46.7 kDa Accurate Molecular Mass: 43 kDa
Purity	> 90%

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Applications	Positive Control; Immunogen; SDS-PAGE; WB.
Stability	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.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8 centigrade for one month. Aliquot and store at -80 centigrade for 12 months.
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% SKL, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

GENE INFORMATION

Gene Name	Nox4 NADPH oxidase 4 [Mus musculus (house mouse)]
Official Symbol	Nox4
Synonyms	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;
Gene ID	50490
mRNA Refseq	NM_015760
Protein Refseq	NP_056575

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UniProt ID

Q9JHI8

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