

Recombinant Human NOX4 Protein, His-tagged

Cat. No. NOX4-2499H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human NOX4 Protein (Leu446-Ser578) with a N-His tag was expressed in E. coli.
Species	Human
Source	E.coli
ProteinLength	Leu446-Ser578
Description	This gene encodes a member of the NOX-family of enzymes that functions as the catalytic subunit the NADPH oxidase complex. The encoded protein is localized to non-phagocytic cells where it acts as an oxygen sensor and catalyzes the reduction of molecular oxygen to various reactive oxygen species (ROS). The ROS generated by this protein have been implicated in numerous biological functions including signal transduction, cell differentiation and tumor cell growth. A pseudogene has been identified on the other arm of chromosome 11. Alternative splicing results in multiple transcript variants.
Form	Freeze-dried powder
Molecular Mass	Predicted Molecular Mass: 19.8 kDa Accurate Molecular Mass: 19 kDa
Endotoxin	<1.0 EU per 1g (determined by the LAL method).

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Purity	> 95%
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 [Homo sapiens (human)]
Official Symbol	NOX4
Synonyms	NOX4; NADPH oxidase 4; KOX; KOX 1; kidney oxidase-1; renal NAD(P)H-oxidase; kidney superoxide-producing NADPH oxidase; KOX-1; RENOX;
Gene ID	50507
mRNA Refseq	NM_001143836

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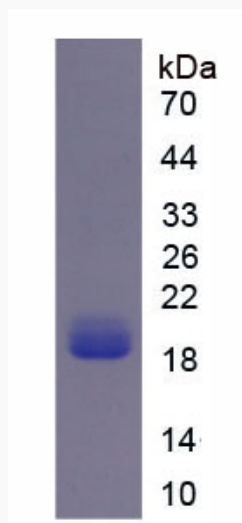
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Protein Refseq NP_001137308

MIM 605261

UniProt ID Q9NPH5



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