

Recombinant Human NOX4 protein, His-tagged

Cat. No. NOX4-1977H Lot. No. (See product label)

SPECIFICATION

Product Overview	Recombinant Human NOX4 aa. (Asp220~Asp392) fused with N-terminal His tag was produced in E. coli cells.
Species	Human
Source	E.coli
ProteinLength	Asp220~Asp392
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	21kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	> 95%

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Characteristic	The isoelectric point is 6.7.
Applications	SDS-PAGE; WB; ELISA; IP; CoIP; Purification; Amine Reactive Labeling.
Stability	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Concentration	200µg/mL
Storage Buffer	PBS, pH7.4, containing 1mM DTT, 5% trehalose, 0.01% sarcosyl and Proclin300.
Reconstitution	Reconstitute in PBS (pH7.4) 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	CYP11A1; cytochrome P450 family 11 subfamily A member 1; CYP11A; CYPXIA1; P450SCC; cholesterol side-chain cleavage enzyme, mitochondrial; cholesterol 20-22 desmolase; cholesterol monooxygenase (side-chain cleaving); cytochrome P450 11A1; cytochrome P450 family 11 subfamily A polypeptide 1; cytochrome P450(scc); cytochrome P450, subfamily XIA (cholesterol side chain cleavage); steroid 20-22-

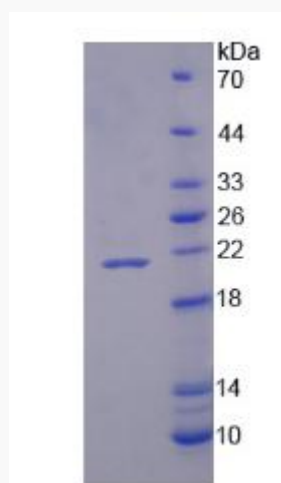
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lyase

Gene ID	50507
mRNA Refseq	NM_001143836.2
Protein Refseq	NP_001137308.1
UniProt ID	Q9NPH5



SDS-PAGE

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