

NOX1 Protein, Human, Recombinant (His)

General Information

Synonyms:	NOX-1;NADH/NADPH mitogenic oxidase subunit P65-MOX;NOH1;NOH-1;NOX1;MOX1; Mitogenic oxidase 1 (MOX-1);NADPH oxidase 1
Protein Construction:	1-564 aa
Species:	Human
Expression Host:	E. coli
Accession:	Q9Y5S8
Molecular Weight:	67.7 kDa (predicted)
AA Sequence:	MGNWVWNHWFVSVLFLVWVWGLNVFLVDAFLKYEKADKYYYTRKILGSTLACARASALCLNFNSTLILLPVCR NLLSFLRGTCFCSRTLKQLDHNLTFHKLVAYMICLHTAIHIIAHLNFDYCYSRQATDGLASILSSLSHDEK KGGSWLNPIQSRNTTVEYVTFTSIAGLTGVIMTIALILMVTSAFIRRSYFEVFWYTHHLFIFYILGLGIHGIGGIV RGQTEESMNESHPRKCAESFEMWDDDRSHCRRPKFEGHPPESWKWILAPVILYICERILRFYRSQQKVVITKV VMHPSKVLELQMNKRGFSMEVGQYIFVNCPSISLLEWHPFTLTSAPPEEDFFSIHIRAAGDWTENLIRAFEQQYS PIPRIEVDGPFGTASEDFVQYEVAVLVGAGIGVTPFASILKSIWYKFQCADHNLKTKKIYFYWICRETGAFSWFN NLLTSLEQEMEELGKVGFLNYRFLTGWDSNIVGHAALNFDKATDIVTGLKQKTSFGRPMWDNEFSTIATSHP KSVVGVFLCGPRTLAKSLRKCCCHRYSSLDPRKVQFYFNKENF

QC Testing

Biological Activity:	Activity has not been tested. It is theoretically active, but we cannot guarantee it. If you require protein activity, we recommend choosing the eukaryotic expression version first.
Purity:	> 85% as determined by SDS-PAGE.
Endotoxin:	< 1.0 EU/µg of the protein as determined by the LAL method.
Formulation:	If the delivery form is liquid, the default storage buffer is Tris/PBS-based buffer, 5%-50% glycerol. If the delivery form is lyophilized powder, the buffer before lyophilization is Tris/PBS-based buffer, 6% Trehalose, pH 8.0.

Preparation and Storage

Reconstitution:

Reconstitute the lyophilized protein in sterile deionized water. The product concentration should not be less than 100 µg/mL. Before opening, centrifuge the tube to collect powder at the bottom. After adding the reconstitution buffer, avoid vortexing or pipetting for mixing.

Stability & Storage:

Lyophilized powders can be stably stored for over 12 months, while liquid products can be stored for 6-12 months at -80°C. For reconstituted protein solutions, the solution can be stored at -20°C to -80°C for at least 3 months. Please avoid multiple freeze-thaw cycles and store products in aliquots.

Actual storage temperature shall be subject to the COA.

Shipping:

In general, lyophilized powders are shipped with blue ice, while solutions are shipped with dry ice.

Protein Background

NOH-1S is a voltage-gated proton channel that mediates the H(+) currents of resting phagocytes and other tissues. It participates in the regulation of cellular pH and is blocked by zinc. NOH-1L is a pyridine nucleotide-dependent oxidoreductase that generates superoxide and might conduct H(+) ions as part of its electron transport mechanism, whereas NOH-1S does not contain an electron transport chain.

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