

NOX1 Protein, Human (Cell-Free, His)

Cat. No.:	HY-P702387
Synonyms:	NADPH oxidase 1; Mitogenic oxidase 1; MOX-1; NADH/NADPH mitogenic oxidase subunit P65-MOX; NOH-1
Species:	Human
Source:	E. coli Cell-free
Accession:	Q9Y5S8 (M1-F564)
Gene ID:	27035
Molecular Weight:	67.7 kDa

PROPERTIES

AA Sequence	<pre> MGNWVVNHWF SVLFLVWVLG LNVFLFVDAF LKYEKADKYY YTRKILGSTL ACARASALCL NFNSTLILLP VCRNLLSFLR GTCSFCSRTL RKQLDHNLTf HKLVAYMICL HTAIIHIAHL FNFDCYSRSR QATDGSLASI LSSLSHDEKK GGSWLNPIQS RNTTVEYVTF TSIAGLTGVI MTIALILMVT SATEFIRRSY FEVFWYTHHL FIFYILGLGI HGIGGIVRGQ TEESMNESHP RKCAESFEMW DDRDSHCRRP KFEHGHPPEW KWILAPVILY ICERILRFYR SQQKVVITKV VMHPSKVLEL QMNKRGFSME VGQYIFVNCP SISLLEWHPF TLTSAPPEEDF FSIHIRAAGD WTENLIRAFE QQYSPIPRIE VDGPFGTASE DVFQYEVAVL VGAGIGVTPF ASILKSIWYK FQCADHNLKT KKIYFYWICR ETGAFSWFNN LLTSLEQEME ELGKVGFLNY RLFLTGWDSN IVGHAAALNFD KATDIVTGLK QKTSFGRPMW DNEFSTIATS HPKSVVGVFL CGPRTLAKSL RKCCHRYSSL DPRKVQFYFN KENF </pre>
Appearance	Lyophilized powder.
Formulation	Lyophilized from a 0.22 µm filtered solution of Tris/PBS-based buffer, 6% Trehalose, pH 8.0.
Endotoxin Level	<1 EU/µg, determined by LAL method.
Reconstitution	It is not recommended to reconstitute to a concentration less than 100 µg/mL in ddH ₂ O. For long term storage it is recommended to add 5-50% of glycerol (final concentration). Our default final concentration of glycerol is 50%. Customers could use it as reference.
Storage & Stability	Stored at -20°C for 2 years. After reconstitution, it is stable at 4°C for 1 week or -20°C for longer (with carrier protein). It is recommended to freeze aliquots at -20°C or -80°C for extended storage.
Shipping	Room temperature in continental US; may vary elsewhere.

DESCRIPTION

Background

NOX1 protein encompasses two distinct isoforms with contrasting functions. NOH-1S operates as a voltage-gated proton channel, orchestrating H(+) currents primarily in quiescent phagocytes and various tissues. This isoform actively contributes to the regulation of cellular pH and is susceptible to inhibition by zinc. On the other hand, NOH-1L functions as a pyridine nucleotide-dependent oxidoreductase, exhibiting the capability to generate superoxide while potentially facilitating the conduction of H(+) ions as part of its electron transport mechanism. It's noteworthy that NOH-1S lacks an electron transport chain, differentiating its functional characteristics from NOH-1L.

Caution: Product has not been fully validated for medical applications. For research use only.

Tel: 609-228-6898

Fax: 609-228-5909

E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA