

Recombinant Full Length Human NOX3 Protein

Cat. No. NOX3-6722HF Lot. No. (See product label)

SPECIFICATION

Product Overview	Human NOX3 full-length ORF (AAI60172.1) recombinant protein without tag.
Species	Human
Source	In Vitro Cell Free System
ProteinLength	231 amino acids
Description	<p>This gene encodes a member of the NOX family of NADPH oxidases. These enzymes have the capacity to generate superoxide and other reactive oxygen species (ROS) and transport electrons across the plasma membrane. The ROS generated by family members have been implicated in numerous biological functions including host defense, posttranslational processing of proteins, cellular signaling, regulation of gene expression, and cell differentiation. The protein encoded by this gene is expressed predominantly in the inner ear and is involved in the biogenesis of otoconia/otolith, which are crystalline structures of the inner ear involved in the perception of gravity</p>
Form	Liquid
Molecular Mass	62.5 kDa
AA Sequence	<p>MMGCWILNEGLSTILVLSWLGINFYLFIDTFYWYEEEEESFHYTRVILGSTLAWARASA LCLNFCMLILIPVSRNLISFIRGTSICCRGPWRRQLDKNLRFHKLVAVGIAVNATIHIV AHFFNLERYHWSQSEEAQGLLAALSKLGNTPNESYLNVPVRTFPTNTTTELLRTIAGV</p>

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TGLVISLALVLIMITSSTEFIRQASYELFWYTHHVFIVFFLSLAIHGTGRIVRGQTQDSLS
LHNITFCRDRYA EWQTV AQCPVPQFSGKEPSAWKWILGPV VLYACERIIRFWRFQQ
E VVITKVVSHPSGVLELHMKKRGFKMAPGQYILVQCPAISSLEWHPFTLTSAPQEDF
FSVHIRAAGDWTAALLEAFGAEGQALQEPW SLPRLAVDGPFGTALTDV FHY PVCVC
VAAGIGVTPFAALLKSIWYKCSEAQTPLKLSKVYFYWICRDARAFEWFADLLLSLETR
MSEQGKTHFLSYHIFLTGWDENQALHIALHWDENTD VITGLKQKTFYGRPNWNNEF
KQIAYNHPSSSIGVFFCGPKALSRTLQKMCHLYSSADPRGVHFYYNKESF

Applications
Antibody Production
Functional Study
Compound Screening

Notes
Best use within three months from the date of receipt of this protein.

Storage
Store at -80 centigrade. Aliquot to avoid repeated freezing and thawing.

Storage Buffer
25 mM Tris-HCl of pH8.0 containing 2% glycerol.

GENE INFORMATION

Gene Name
NOX3 NADPH oxidase 3 [Homo sapiens]

Official Symbol
NOX3

Synonyms
NOX3; NADPH oxidase 3; GP91 3; gp91phox homolog 3; mitogenic oxidase 2;
NADPH oxidase catalytic subunit-like 3; MOX-2; GP91-3;

Gene ID
50508

mRNA Refseq
NM_015718

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Protein Refseq NP_056533

MIM 607105

UniProt ID Q9HBY0

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