

Recombinant Human NOX3 Protein

Cat. No. NOX3-6006H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Human NOX3 full-length ORF (AAI60172.1) recombinant protein without tag.
Species	Human
Source	Wheat Germ
Description	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
Form	Liquid
Molecular Mass	62.5 kDa
AA Sequence	MMGCWILNEGLSTILVLSWLGINFYLFIDTFYWYEEEEESFHYTRVILGSTLAWARASALCLNFNCMLILIPVSRNLISFIRGTSICCRGPWRRQLDKNLRFHKLVA YGI AVNATI HIVAHFFNLERYHWSQSEEAQGLLAALSKLGNTPNESYLN PVRTFPTNTTTTELLRTIAGVTGLVISLALVLIMTSSTEFIRQASYELFWYTHHVFIVFFLSLAIHGTGRIVRGQTQDSLSLHNITFCRDRYA EWQTVAQCPVPQFSGKEPSAWKWILGPVVLYACERIIRFWRFQQ

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EVVITKVVSHPSGVLELHMKKRGFKMAPGQYILVQCPAISSLEWHPFTLTSA PQEDF
FSVHIRAAGDWTAAALLEAFGAEGQALQEPWSLPRLAVDGPFGTALTDVFHYPVCVC
VAAGIGVTPFAALLKSIWYKCSEAQTPLKLSKVYFYWICRDARAFEWFADLLLSLETR
MSEQGKTHFLSYHIFLTGWDENQALHIALHWDENTDVITGLKQKTFYGRPNWNNEF
KQIAYNHPSSSIGVFFCGPKALSRTLQKMCHLYSSADPRGVHFYYNKESF

Applications

Antibody Production
Functional Study
Compound Screening

Usage

Heating may cause protein aggregation. Please do not heat this product before electrophoresis.

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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