

## Recombinant Human NOX3 Protein

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

### SPECIFICATION

|                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Product Overview</b> | Human NOX3 full-length ORF (AAI60172.1) recombinant protein without tag.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Species</b>          | Human                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| <b>Source</b>           | Wheat Germ                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Description</b>      | 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 |
| <b>Form</b>             | Liquid                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Molecular Mass</b>   | 62.5 kDa                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>AA Sequence</b>      | MMGCWILNEGLSTILVLSWLGINFYLFIDTFYWYEEEEESFHYTRVILGSTLAWARASALCLNFNCMILIPVSRNLISFIRGTSICCRGPWRRQLDKNLRFHKLVA 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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