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Product Information

MemDX™ Membrane Protein Human NOX3 (NADPH oxidase 3) Full Length

Cat. No.: **MPC3001K**
This product is for research use only and is not intended for diagnostic use.

This product is a made-to-order Human NOX3 membrane protein expressed in HEK293. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species
Human

Target Protein
NOX3

Protein Length
Full length

Protein Class
Oxidoreductase

TMD
6

Sequence
MMGCWILNEGLSTILVLSWLGINFYLFIDTFYWYEEEESFHYTRVILGST
LAWARASALCLNFNCMLILIPVSRNLISFIRGTSICCRGPWRRQLDKNLR
FHKLVAYGIAVNATIHIVAHFFNLERYHWSQSEEAQGLLAALSKLGNTPN
ESYLNPVRTFPTNTTTELLRTIAGVTGLVISLALVLIMTSSTEFIRQASY
ELFWYTHHVFIVFFLSLAIHGTGRIVRGQTQDSLSLHNITFCRDRYAEWQ
TVAQCPVPQFSGKEPSAWKWILGPVVLYACERIIRFWRFQQEVVITKVVS
HPSGVLELHMKKRGFKMAPGQYILVQCPAISSLEWHPFTLTSAPQEDFFS
VHIRAAGDWTAALLEAFGAEGQALQEPWSLPRLAVDGPFGTALTDVFHYP
VCVCVAAGIGVTPFAALLKSIWYKCSEAQTPLKLSKVYFYWICRDARAFE
WFADLLLSLETRMSEQGKTHFLSYHIFLTGWDENQALHIALHWDENTDVI
TGLKQKTFYGRPNWNNEFKQIAYNHPSSSIGVFFCGPKALSRTLQKMCHL
YSSADPRGVHFYYNKESF

Product Description

Expression Systems
HEK293

Tag
Based on specific requirements

Protein Format

Detergent or based on specific requirements (Detergent, Liposome, Nanodisc, Polymer, VLP)

Form

Liquid

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -72°C or lower. Avoid freeze/thaw cycles.

Target

Target Protein

NOX3

Full Name

NADPH oxidase 3

Introduction

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, posttranlational 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.

Alternative Names

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

Gene ID

50508

UniProt ID

Q9HBY0

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