

Product Information

MemDX™ Membrane Protein Mouse Nox3 (NADPH oxidase 3) Expressed *in vitro* E.coli expression system, Full Length

Cat. No.: **MPX2823K**

This product is for research use only and is not intended for diagnostic use.

This product is a Mouse Nox3 membrane protein expressed *in vitro* E.coli expression system. The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Mouse

Target Protein

Nox3

Protein Length

Full Length

Protein Class

Oxidoreductase

TMD

6

Sequence

MPVCWILNESGSFVALLWLAVNAYLFIDTFFWYTEEEAFFYTRVILGSALAWARASAVCLNFCMLILLPVSRNFISLVRGTSVCCR

Product Description

Expression Systems

in vitro E.coli expression system

Tag

10xHis tag at the N-terminus

Protein Format

Soluble

Form

Liquid or Lyophilized powder

Buffer

Tris/PBS-based buffer, 6% Trehalose, pH 8.0

Storage

Aliquot and store at -20°C or lower. For long term storage, we recommend to store at -70°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 catalyze the transfer of electrons from NADPH to molecular oxygen to produce superoxide and other reactive oxygen species (ROS). 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, which are crystalline structures of the inner ear involved in the perception of gravity and linear acceleration. In mouse mutations of this gene lead to the absence of otoconia and vestibular dysfunction.

Alternative Names

Nox3; het; nmf25; GP91-3; nmf250; head-tilt; NADPH oxidase 3

Gene ID

[224480](#)

UniProt ID

[Q672J9](#)