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Product Information

MemDX™ Recombinant Human KCNK3 Membrane Protein in Virus-Like Particles (MP-VLPs)

Cat. No.: **S01YF-0622-KX65**
This product is for research use only and is not intended for diagnostic use.

This product is recombinant Human KCNK3 in VLPs form. This product is produced from HEK293 by co-expressing the retroviral structural core polyprotein (gag) and the target membrane protein. MP-VLPs display highly-expressed copies of membrane proteins in their native conformation, providing an alternative to membrane protein stable cell lines, membrane preparations, detergent-solubilized proteins and other membrane protein preparation strategies. MP-VLPs can be used for a wide range of applications in antibody production, antibody discovery, antibody characterization, binding assays and functional assays.

Product Specifications

Host Species
Human

Target Protein
KCNK3

Protein Length
Full length

Protein Class
Ion channel

TMD
4

Sequence
MKRQNVRTLALIVCTFTYLLVGAAVFDALESEPELIERQRLELRQQELRARYNLSQGGYEELERVVLRLKPHKAGVQWRFAGSFYF

Product Description

Application
ELISA; Antibody Production; Antibody Discovery; Antibody Characterization; Binding Assays; Functional Assays

Expression Systems
HEK293 expression system

Tag
10xHis tag at the C-terminus

Protein Format
Membrane Protein-Virus Like Particles (MP-VLPs)

Form

Liquid

Buffer

PBS, 6% Trehalose, pH 7.4

Storage

The product should be stored at -20°C or lower. Avoid freeze-thaw cycles.

Target

Target Protein

KCNK3

Full Name

Potassium two pore domain channel subfamily K member 3

Introduction

This gene encodes a member of the superfamily of potassium channel proteins that contain two pore-forming P domains. The encoded protein is an outwardly rectifying channel that is sensitive to changes in extracellular pH and is inhibited by extracellular acidification. Also referred to as an acid-sensitive potassium channel, it is activated by the anesthetics halothane and isoflurane. Although three transcripts are detected in northern blots, there is currently no sequence available to confirm transcript variants for this gene.

Alternative Names

OAT1; PPH4; TASK; TASK1; TBAK1; K2p3.1; TASK-1; potassium channel subfamily K member 3; TWIK-related acid-sensitive K(+) channel 1; TWIK-related acid-sensitive K+ 1; TWIK-related; acid-sensitive K+ channel; acid-sensitive potassium channel protein TASK; acid-sensitive potassium channel protein TASK-1; cardiac potassium channel; potassium channel, two pore domain subfamily K, member 3; potassium inwardly-rectifying channel, subfamily K, member 3; two P domain potassium channel; two pore K(+) channel KT3.1; two pore potassium channel KT3.1; KCNK3; Potassium two pore domain channel subfamily K member 3

Gene ID

3777

UniProt ID

O14649

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