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Product Information

MemDX™ Membrane Protein Human SLC26A5 (Solute carrier family 26 member 5) for Antibody Discovery

Cat. No.: **MP1197X**
This product is for research use only and is not intended for diagnostic use.

This product is a 75 kDa Human SLC26A5 membrane protein expressed in *In vitro* wheat germ 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
Human

Target Protein
SLC26A5

Protein Length
Full-length

Molecular Weight
75 kDa

TMD
12

Sequence
MDHAEENEILAATQRYYVERPIFSHPVLQERLHTKDKVPDSIADKLKQAFTCTPKKIRNIIYMFLPITKWLPAYKFKEYVLGDLVSGIST

Product Description

Application
Enzyme-linked Immunoabsorbent Assay, Western Blot (Recombinant protein), Antibody Production, Protein Array

Expression Systems
in vitro wheat germ expression system

Tag
GST-tag at N-terminal

Protein Format
Liposome

Form

Liquid

Purification

Glutathione Sepharose 4 Fast Flow

Buffer

50 mM Tris-HCl, 10 mM reduced Glutathione, pH=8.0

Storage

Store at +4°C for up to one week or several months at -80°C

Target

Target Protein

SLC26A5

Full Name

Solute carrier family 26 member 5

Introduction

This gene encodes a member of the SLC26A/SulP transporter family. The protein functions as a molecular motor in motile outer hair cells (OHCs) of the cochlea, inducing changes in cell length that act to amplify sound levels. The transmembrane protein is an incomplete anion transporter, and does not allow anions to cross the cell membrane but instead undergoes a conformational change in response to changes in intracellular Cl- levels that results in a change in cell length. The protein functions at microsecond rates, which is several orders of magnitude faster than conventional molecular motor proteins. Mutations in this gene are potential candidates for causing neurosensory deafness. Multiple transcript variants encoding different isoforms have been found for this gene.

Alternative Names

PRES; DFNB61; prestin; prestin (motor protein); solute carrier family 26 (anion exchanger), member 5

Gene ID

375611

UniProt ID

P58743

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