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Product Information

MemDX™ Membrane Protein Human BEST1 (Bestrophin 1) Full Length

Cat. No.: **MPC0418K**
This product is for research use only and is not intended for diagnostic use.

This product is a 67.6 kDa Human BEST1 membrane protein expressed in Baculovirus/Insect 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
BEST1

Protein Length
Full length

Protein Class
Transporter; Ion channel

Molecular Weight
67.6 kDa

TMD
4

Sequence
MTITYTSQVANARLGSFSRLLLCWRGSIYKLLYGEFLIFLLCYYIIRFIY
RLALTEEQQLMFEKLTLYCDSYIQLIPISFVLGFYVTLVVTRWWNQYENL
PWPDRLMSLVSGFVEGKDEQGRLLRRTLIRYANLGNVLILRSVSTAVYKR
FPSAQHLVQAGFMTPAEHKQLEKLSLPHNMFWVPWVWFANLSMKAWLGGR
IRDPILLQSLLNEMNTLRTQCGHLYAYDWISIPLVYTQVVTVAVYSFFLT
CLVGRQFLNPAKAYPGHELDLVVPVFTFLQFFFYVGWLKVAEQLINPFGE
DDDDFETNWIVDRNLQVSLLAVDEMHQDLPRMEPDMYWNKPEPQPPYTAA
SAQFRRASFMGSTFNISLNKEEMEFQPNQEDEEDAHAGIIGRFLGLQSHD
HHPPRANSRTKLLWPKRESLLHEGLPKNHKAAKQNVRGQEDNKAWKLKAV
DAFKSAPLYQRPGYYSAPQTPLSPTPMFFPLEPSAPSKLHSVTGIDTKDK
SLKTVSSGAKKSFELLSESDGALMEHPEVSQVRRKTVEFNLTDMPEIPEN
HLKEPLEQSPTNIHTTLKDHMDPYWALENRDEAHS

Product Description

Expression Systems
Baculovirus/Insect expression system

Tag

Based on specific requirements

Protein Format

Detergent or based on specific requirements

Form

Liquid

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

BEST1

Full Name

Bestrophin 1

Introduction

This gene encodes a member of the bestrophin gene family. This small gene family is characterized by proteins with a highly conserved N-terminus with four to six transmembrane domains. Bestrophins may form chloride ion channels or may regulate voltage-gated L-type calcium-ion channels. Bestrophins are generally believed to form calcium-activated chloride-ion channels in epithelial cells but they have also been shown to be highly permeable to bicarbonate ion transport in retinal tissue. Mutations in this gene are responsible for juvenile-onset vitelliform macular dystrophy (VMD2), also known as Best macular dystrophy, in addition to adult-onset vitelliform macular dystrophy (AVMD) and other retinopathies. Alternative splicing results in multiple variants encoding distinct isoforms.

Alternative Names

ARB; BMD; BEST; RP50; VMD2; TU15B; Best1V1Delta2; bestrophin-1; Best disease; vitelliform macular dystrophy protein 2; BEST1; Bestrophin 1

Gene ID

7439

UniProt ID

O76090

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