

Product Information

MemDX™ Membrane Protein Human AQP4 (Aquaporin 4) Full Length

Cat. No.: **MPC0393K**

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

This product is a 34.8 kDa Human AQP4 membrane protein expressed in *Komagataella pastoris*. 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

AQP4

Protein Length

Full length

Protein Class

Transporter

Molecular Weight

34.8 kDa

TMD

6

Sequence

MSDRPTARRWGKCGPLCTRENIMVAFKGVWTQAFWKAVTAEFLAMLIFVL
LSLGSTINWGGTEKPLPVDMLISLCFGLSIATMVQCFGHISGGHINPAV
TVAMVCTRKISIAKSVFYIAAQCLGAIIGAGILYLVTPPSVVGGLGVTMV
HGNLTAGHGLLVELIITFQLVFTIFASCDKRTDVTGSIALAIGFSVAIG
HLFAINYTGASMNPARSFGPAVIMGNWENHWIYWVGPIIGAVLAGGLYEY
VFCDPVEFKRRFKEAFSKAAQQTKGSYMEVEDNRSQVETDDLILKPGVVH
VIDVDRGEEKKGKDQSGEVLSSV

Product Description

Expression Systems

Komagataella pastoris

Tag

8xHis tag at N-terminal

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**

AQP4

Full Name

Aquaporin 4

Introduction

This gene encodes a member of the aquaporin family of intrinsic membrane proteins that function as water-selective channels in the plasma membranes of many cells. This protein is the predominant aquaporin found in brain and has an important role in brain water homeostasis. Alternatively spliced transcript variants encoding different isoforms have been described for this gene. Additional isoforms, resulting from the use of alternative in-frame translation initiation codons, have also been described. Recent studies provided evidence for translational readthrough in this gene, and expression of C-terminally extended isoforms via the use of an alternative in-frame translation termination codon.

Alternative Names

MIWC; WCH4; aquaporin-4; aquaporin type4; mercurial-insensitive water channel; AQP4; Aquaporin 4

Gene ID

[361](#)

UniProt ID

[P55087](#)