

Product Information

MemDX™ Membrane Protein Human RHO (Rhodopsin) Full Length

Cat. No.: **MPC1090K**

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

This product is a 38.8 kDa Human RHO membrane protein expressed in HEK293. 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

RHO

Protein Length

Full length

Protein Class

GPCR

Molecular Weight

38.8 kDa

TMD

7

Sequence

MNGTEGPNFYVPFSNATGVVRSPFEYPQYYLAEPWQFSMLAAYMFLIVL
GFPINFLTLYVTQHKLRTPNLNYILLNLAVADLFMVLGGFTSTLYTSLH
GYFVFGPTGCNLEGGFFATLGGEIALWSLVVLAIERVYVVKPMSNFRFGE
NHAIMGVAFTWVMALACAAPPLAGWSRYIPEGLQCSCGIDYYTLKPEVNN
ESFVIYMFVVHFTIPMIIFFCYGQLVFTVKEAAAQQQESATTQKAEKEV
TRMVIIMVIAFLICWVPYASVAFYIFTHQGSNFGPIFMTIPAFFAKSAAI
YNPVIYIMMNKQFRNCMLTICCGKNPLGDDEASATVSKTETSQVAPA

Product Description

Expression Systems

HEK293

Tag

8xHis and 2xMBP 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**

RHO

Full Name

Rhodopsin

Introduction

The protein encoded by this gene is found in rod cells in the back of the eye and is essential for vision in low-light conditions. The encoded protein binds to 11-cis retinal and is activated when light hits the retinal molecule. Defects in this gene are a cause of congenital stationary night blindness.

Alternative Names

RHO; RP4; OPN2; CSNBAD1; opsin 2, rod pigment; opsin-2; Rhodopsin

Gene ID

[6010](#)

UniProt ID

[P08100](#)