

Product Information

MemDX™ Membrane Protein Human OPN1SW (Opsin 1, short wave sensitive) Full Length

Cat. No.: **MPC1087K**

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

This product is a 39.1 kDa Human OPN1SW 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

OPN1SW

Protein Length

Full length

Protein Class

GPCR

Molecular Weight

39.1 kDa

TMD

7

Sequence

MRKMSEEEFYLFKNISSVGPWDGPQYHIAPVWAFYLQAAFMGTVFLIGFP
LNAMVLVATLRYKKLRQPLNYILVNVSFGGFLLCIFSVFPVFVASCNGYF
VFGRHVCALLEGFLGTVAGLVTGWSLAFLAFERYIVICKPFGNFRFSSKHA
LTVVLATWTIGIGVSIPFFGWSRFIPEGLQCSCGPDWYTVGTYRSESY
TWFLFIFCFIVPLSLICFSYQLLRALKAVAAQQQESATTQKAEREVSRM
VVVMVGSFCVCYVPYAAFAMYMVNNRNHGLDLRLVTIPSFFSKSACIYNP
IICYCFMNKQFQACIMKMVCGKAMTDESDTCSSQKTEVSTVSSTQVGPN

Product Description

Expression Systems

HEK293

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**

OPN1SW

Full Name

Opsin 1, short wave sensitive

Introduction

This gene belongs to the G-protein coupled receptor 1 family, opsin subfamily. It encodes the blue cone pigment gene which is one of three types of cone photoreceptors responsible for normal color vision. Defects in this gene are the cause of tritan color blindness (tritanopia). Affected individuals lack blue and yellow sensory mechanisms while retaining those for red and green. Defective blue vision is characteristic.

Alternative Names

OPN1SW; BCP; BOP; CBT; short-wave-sensitive opsin 1; blue cone photoreceptor pigment; blue-sensitive opsin; opsin 1 (cone pigments), short-wave-sensitive; Opsin 1, short wave sensitive

Gene ID

[611](#)

UniProt ID

[P03999](#)