

Product Information

MemDX™ Membrane Protein Bacteria OE_RS05715 (Bacteriorhodopsin)

Cat. No.: **MP0005F**

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

The protein is for research use only and is not approved for use in humans or in clinical diagnosis.

Product Specifications

Host Species

Bacteria

Target Protein

OE_RS05715

Protein Length

Full Length

Protein Class

GPCR

Molecular Weight

28.25 kDa

TMD

7

Sequence

MLELLPTAVEGVSQAQITGRPEWIWLALGTALMGLGTLYFLVKGMGVSDPDAKKFYAITT
LVPAIAFTMYLSMLLGYGLTMVFPFGGGEQNPIYWARYADWLFTTPLLLLDLALLVDADQGT
ILALVGADGIMIGTGLVGALTKVYSYRFVWVAISTAAMLYILYVLFPGFTSKAESMRPEV
ASTFKVLRNVTVVLWSAYPVVWLIGSEGAGIVPLNIETLLFMVLDVSAKVGFGILLRSR
AIFGEAEAPEPSAGDAAAATSD

Product Description

Activity

To be tested

Application

Screening & display technologies, Structural biology

Expression Systems

Cell-free expression system

Tag

Histidine tag fused to the N-terminal end of the protein

Protein Format

Proteoliposome

Form

Powder

Purification

Sucrose gradient

Purity

>50% by SDS-Page and Coomassie Blue staining

Buffer

Tris 50mM, pH 7.5

Storage

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

Target**Target Protein**

OE_RS05715

Full Name

Bacteriorhodopsin

Introduction

Bacteriorhodopsin is a protein used by Archaea, most notably by haloarchaea, a class of the Euryarchaeota. It acts as a proton pump; that is, it captures light energy and uses it to move protons across the membrane out of the cell.

Alternative Names

OE3106F, OE_3106F

Gene ID

[5953595](#)

UniProt ID

[B0R5N9](#)