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Product Information

MemDX™ Membrane Protein Human OR2W5 (Olfactory receptor family 2 subfamily W member 5 pseudogene) Expressed *in vitro E.coli* expression system, Full Length

Cat. No.: **MPX2438K**
This product is for research use only and is not intended for diagnostic use.

This product is a Human OR2W5 membrane protein expressed *in vitro E.coli* 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
OR2W5

Protein Length
Full Length

Protein Class
GPCR

TMD
4

Sequence
MGKDNASYLQAFILVGSSDRPGLEKILFAVILIFCILTLVGNTAIILLLVMDVRLHTPMYFFLGNLSFLDLCFTASIAPQLLWNLGGPEKT

Product Description

Expression Systems
in vitro E.coli expression system

Tag
10xHis tag at the N-terminus

Protein Format
Soluble

Form
Liquid or Lyophilized powder

Buffer

Tris/PBS-based buffer, 6% Trehalose, pH 8.0

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

OR2W5

Full Name

Olfactory receptor family 2 subfamily W member 5 pseudogene

Introduction

Olfactory receptors interact with odorant molecules in the nose, to initiate a neuronal response that triggers the perception of a smell. The olfactory receptor proteins are members of a large family of G-protein-coupled receptors (GPCR) arising from single coding-exon genes. Olfactory receptors share a 7-transmembrane domain structure with many neurotransmitter and hormone receptors and are responsible for the recognition and G protein-mediated transduction of odorant signals. The olfactory receptor gene family is the largest in the genome. The nomenclature assigned to the olfactory receptor genes and proteins for this organism is independent of other organisms. This olfactory receptor gene has a coding sequence that is comparable in length to other olfactory receptor genes, but it should be noted that a frameshift is present in the 3' coding region that disrupts the 7-transmembrane domain structure in the protein. It is unclear if the protein can function as an olfactory receptor or if an alternate function is served. For this reason, this gene has also been interpreted to be a pseudogene.

Alternative Names

OR2W5; OR2W5; OST722; olfactory receptor 2W5; olfactory receptor, family 2, subfamily W, member 5; putative olfactory receptor 2W5; Olfactory receptor family 2 subfamily W member 5 pseudogene

Gene ID

441932

UniProt ID

A6NFC9