

Product Information

MemDX™ Membrane Protein Human OR1A1 (Olfactory receptor family 1 subfamily A member 1) expressed in E.coli for Antibody Discovery

Cat. No.: **MP1364J**

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

This product is a 50.6 kDa Human OR1A1 membrane protein expressed in E.coli. 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

OR1A1

Protein Length

Full-length

Protein Class

GPCR

Molecular Weight

50.6 kDa

TMD

7

Sequence

MRENNQSSTLEFILLGVTGQQEQEDFFYILFLFIYPITLIGNLLIVLAICSDVRLHNPMYFLLANLSLVDIFFSSVTIPKMLANHLLGSKSIS

Product Description

Expression Systems

E.coli

Tag

N-6xHis-SUMO

Form

Liquid or Lyophilized powder

Reconstitution

Please reconstitute protein in deionized sterile water to a concentration of 0.1-1.0 mg/mL. We recommend to add 5-50% of glycerol (final concentration).

Purity

>85% as determined by SDS-PAGE

Buffer

Liquid: Tris/PBS-based buffer, 5%-50% glycerol

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

Storage

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

Target**Target Protein**

OR1A1

Full Name

Olfactory receptor family 1 subfamily A member 1

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.

Alternative Names

OR1A1; Olfactory receptor 1A1; Olfactory receptor 17-7; OR17-7; Olfactory receptor OR17-11

Gene ID

[8383](#)

UniProt ID

[Q9P1Q5](#)