

Product Information

NativeExtract™ Human OR51E2 Membrane Protein (Full length, Super Nanodisc)

Cat. No.: **S01YF-1023-KX136**

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

This product is recombinant Human OR51E2 protein in native nanodisc form. The synthetic compound we developed can solubilize the OR51E2 protein from membrane while retaining the native structure.

Product Specifications

Host Species

Human

Target Protein

OR51E2

Protein Length

Full length

Molecular Weight

35.5kDa

Sequence

Accession # [Q9H255](#)

Product Description

Activity

Yes

Application

ELISA; SPR Binding Assays; Phage Display Screening; Immunity; Functional Assays

Expression Systems

HEK293 expression system

Tag

Flag tag at the C-terminus

Protein Format

Native Nanodisc

Form

Liquid

Buffer

20 mM Tris-HCl, 150 mM NaCl, pH 8.0

Storage

The product should be stored at -20°C to -80°C.

Target**Target Protein**

OR51E2

Full Name

Olfactory receptor family 51 subfamily E member 2

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

OR51E2; PSGR; HPRAJ; OR52A2; OR51E3P; olfactory receptor 51E2; olfactory receptor OR11-16; olfactory receptor, family 51, subfamily E, member 3 pseudogene; olfactory receptor, family 52, subfamily A, member 2; prostate-specific G-protein coupled receptor; Olfactory receptor family 51 subfamily E member 2

Gene ID

[81285](#)

UniProt ID

[Q9H255](#)