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Product Information

NativeExtract™ Human OR1A1 Membrane Protein (Full length, Super Nanodisc)

Cat. No.: **S01YF-1023-KX116**
This product is for research use only and is not intended for diagnostic use.

This product is recombinant Human OR1A1 protein in native nanodisc form. The synthetic compound we developed can solubilize the OR1A1 protein from membrane while retaining the native structure.

Product Specifications

Host Species
Human

Target Protein
OR1A1

Protein Length
Full length

Molecular Weight
34.6kDa

Sequence
Accession # Q9P1Q5

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

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; OR17-7; olfactory receptor 1A1; olfactory receptor 17-7; olfactory receptor OR17-11; Olfactory receptor family 1 subfamily A member 1

Gene ID

8383

UniProt ID

Q9P1Q5