

# Product Information

## NativeExtract™ Human OR52D1 Membrane Protein (Full length, Super Nanodisc)

Cat. No.: **S01YF-1023-KX359**

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

This product is recombinant Human OR52D1 protein in native nanodisc form. The synthetic compound we developed can solubilize the OR52D1 protein from membrane while retaining the native structure.

### Product Specifications

#### Host Species

Human

#### Target Protein

OR52D1

#### Protein Length

Full length

#### Molecular Weight

35.1 kDa

#### Sequence

Accession # [Q9H346](#)

### 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**

OR52D1

**Full Name**

Olfactory receptor family 52 subfamily D 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**

OR52D1; OR11-43; olfactory receptor 52D1; HOR 5'Beta14; odorant receptor HOR5'beta14; olfactory receptor OR11-43; Olfactory receptor family 52 subfamily D member 1

**Gene ID**

[390066](#)

**UniProt ID**

[Q9H346](#)