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# Datasheet for ABIN7538441

# **OR2S2 Protein**



#### Overview

Quantity:	50 μg
Target:	OR2S2
Origin:	Human
Source:	Mammalian Cells
Protein Type:	Synthetic Nanodisc

#### **Product Details**

Purpose:	Human OR2S2 full length protein-synthetic nanodisc
Characteristics:	Unlike other membrane scaffold protein (MSP) Nanodisc on the market, our synthetic Nanodisc
	can be prepared directly from the cells. The polymers used during this process have a dual
	function. It dissolves the cell membranes, like the detergent, and uses cellular phospholipids to
	form Nanodisc around the membrane proteins. The target protein embedded Nanodiscs can
	then be purified.

# **Target Details**

Target:	OR2S2
Alternative Name:	OR2S2 (OR2S2 Products)
Background:	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 is a segregating		
pseudogene, where some individuals have an allele that encodes a functional olfactory		
receptor, while other individuals have an allele encoding a protein that is predicted to be non-		
functional. [provided by RefSeq, Jul 2015]		

#### Molecular Weight:

The human full length OR2S2 protein has a MW of 35.2kDa

UniProt:

Q9NQN1

# **Application Details**

#### Comment:

Advantages of Synthetic Nanodiscs:

- · Highly purified membrane proteins
- · High solubility in aqueous solutions
- · High stability
- · Proteins are in a native membrane environment and remain biologically active
- No detergent and can be used for cell-based assays
- · No MSP backbone proteins

Limitations of Synthetic Nanodiscs:

· Intolerant to acids and high concentrations of divalent metal ions

Restrictions:

For Research Use only

# Handling

Format:	Lyophilized
Buffer:	Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0).  Normally 5 % - 8 % trehalose is added as protectants before lyophilization.
Storage:	-20 °C,-80 °C
Storage Comment:	Store at -20°C to -80°C for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80°C (Avoid repeated freezing and thawing).  Lyophilized proteins are shipped at ambient temperature.
Expiry Date:	12 months