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## Olfactory Receptor, Family 8, Subfamily D, Member 2 (OR8D2) Protein



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Quantity:	50 μg			
Target:	Olfactory Receptor, Family 8, Subfamily D, Member 2 (OR8D2)			
Origin:	Human			
Source:	Mammalian Cells			
Protein Type:	Synthetic Nanodisc			

#### **Product Details**

Purpose:	Human OR8D2 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:	Olfactory Receptor, Family 8, Subfamily D, Member 2 (OR8D2)			
Alternative Name:	OR8D2 (OR8D2 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			

Molecular Weight:

The human full length OR8D2 protein has a MW of 34.9kDa

UniProt:

Q9GZM6

### **Application Details**

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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				