



[Go to Product page](#)

Datasheet for ABIN7538466

## OXGR1 Protein

### Overview

|               |                    |
|---------------|--------------------|
| Quantity:     | 50 µg              |
| Target:       | OXGR1              |
| Origin:       | Human              |
| Source:       | Mammalian Cells    |
| Protein Type: | Synthetic Nanodisc |

### Product Details

|                  |  |
|------------------|--|
| Purpose:         | Human OXGR1 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:           | OXGR1   |
| Alternative Name: | OXGR1 ( <a href="#">OXGR1 Products</a> )  |
| Background:       | This gene encodes a G protein-coupled receptor (GPCR) that belongs to the oxoglutarate receptor family within the GPCR superfamily. The encoded protein is activated by the citric acid intermediate, oxoglutarate, as well as several cysteinyl leukotrienes, including leukotrienes E4, C4 and D4, which are implicated in many inflammatory disorders. In mice, a knock-out of this gene leads to middle ear inflammation, changes in the mucosal epithelium, and an increase in |

## Target Details

---

fluid behind the eardrum, and is associated with hearing loss. Alternative splicing results in multiple transcript variants. [provided by RefSeq, Oct 2016]

Molecular Weight: The human full length OXGR1 protein has a MW of 38.3kDa

UniProt: [Q96P68](#)

## 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