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Datasheet for ABIN7538467
Oxytocin Receptor Protein (OXTR)

Overview

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|---------------|--------------------------|
| Quantity: | 50 µg |
| Target: | Oxytocin Receptor (OXTR) |
| Origin: | Human |
| Source: | Mammalian Cells |
| Protein Type: | Synthetic Nanodisc |

Product Details

| | |
|------------------|--|
| Purpose: | Human OXYR 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: | Oxytocin Receptor (OXTR) |
| Alternative Name: | OXYR (OXTR Products) |
| Background: | The protein encoded by this gene belongs to the G-protein coupled receptor family and acts as a receptor for oxytocin. Its activity is mediated by G proteins which activate a phosphatidylinositol-calcium second messenger system. The oxytocin-oxytocin receptor system plays an important role in the uterus during parturition. [provided by RefSeq, Jul 2008] |
| Molecular Weight: | The human full length OXYR protein has a MW of 42.8kDa |

Target Details

UniProt: [P30559](#)

Pathways: [Myometrial Relaxation and Contraction, Feeding Behaviour](#)

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