

Datasheet for ABIN7455865

FSHR Protein**2** Images[Go to Product page](#)

Overview

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|---------------|--------------------|
| Quantity: | 10 µg |
| Target: | FSHR |
| Origin: | Human |
| Source: | HEK-293 Cells |
| Protein Type: | Synthetic Nanodisc |

Product Details

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| Purpose: | Human FSHR 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

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|-------------------|---|
| Target: | FSHR |
| Alternative Name: | FSHR (FSHR Products) |
| Background: | The protein belongs to family 1 of G-protein coupled receptors. It is the receptor for follicle stimulating hormone and functions in gonad development. Mutations in this gene cause ovarian dysgenesis type 1, and also ovarian hyperstimulation syndrome. Alternative splicing results in multiple transcript variants. |
| Molecular Weight: | The human full length FSHR protein has a MW of 78.3 kDa |

Target Details

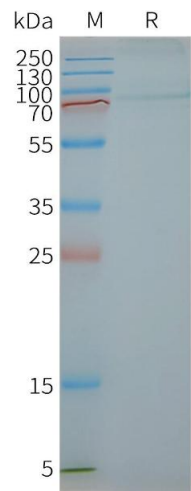
| | |
|-----------|---|
| UniProt: | P23945 |
| Pathways: | Intracellular Steroid Hormone Receptor Signaling Pathway , Regulation of Intracellular Steroid Hormone Receptor Signaling , Regulation of Hormone Metabolic Process , Platelet-derived growth Factor Receptor Signaling |

Application Details

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| Comment: | <p>Advantages of Synthetic Nanodiscs:</p> <ul style="list-style-type: none">• 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 <p>Limitations of Synthetic Nanodiscs:</p> <ul style="list-style-type: none">• Intolerant to acids and high concentrations of divalent metal ions |
| Restrictions: | For Research Use only |

Handling

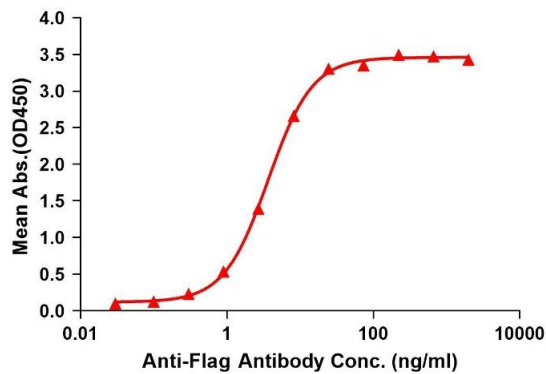
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|------------------|--|
| Format: | Lyophilized |
| Buffer: | Lyophilized from nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0). Normally 5 % - 8 % trehalose is added as protectants before lyophilization. |
| Storage: | -20 °C,-80 °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 |



SDS-PAGE

Image 1. Human FSHR-Nanodisc, Flag Tag on SDS-PAGE

ELISA assay to evaluate FSHR-Nanodisc
0.2µg Human FSHR-Nanodisc per well



ELISA

Image 2. Elisa plates were pre-coated with Flag Tag FSHR-Nanodisc (0.2 µg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with FSHR-Nanodisc is 3.687 ng/mL.