

Datasheet for ABIN7491647

**FZD7 Protein****2** Images[Go to Product page](#)

## Overview

Quantity:	100 µg
Target:	FZD7
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Synthetic Nanodisc

## Product Details

Purpose:	Human FZD7 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:	FZD7
Alternative Name:	FZD7 ( <a href="#">FZD7 Products</a> )
Background:	Members of the 'frizzled' gene family encode 7-transmembrane domain proteins that are receptors for Wnt signaling proteins. The FZD7 protein contains an N-terminal signal sequence, 10 cysteine residues typical of the cysteine-rich extracellular domain of Fz family members, 7 putative transmembrane domains, and an intracellular C-terminal tail with a PDZ domain-binding motif. FZD7 gene expression may downregulate APC function and enhance beta-

## Target Details

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catenin-mediated signals in poorly differentiated human esophageal carcinomas.

Molecular Weight: The human full length FZD7 protein has a MW of 63.6 kDa

UniProt: [O75084](#)

Pathways: [WNT Signaling, Stem Cell Maintenance](#)

## Application Details

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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

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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.

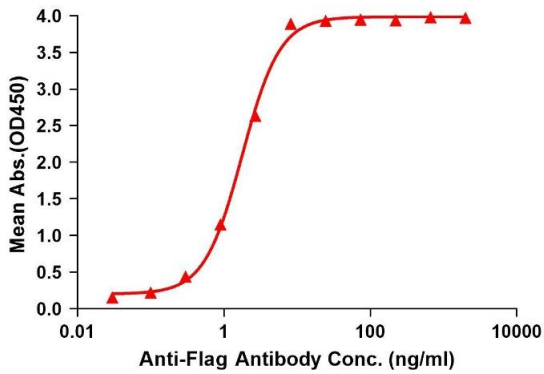
Expiry Date: 12 months



### SDS-PAGE

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

**ELISA assay to evaluate FZD7-Nanodisc**  
0.2µg Human FZD7-Nanodisc per well



### ELISA

**Image 2.** Elisa plates were pre-coated with Flag Tag - 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 -Nanodisc is 1.783 ng/mL.