

## Datasheet for ABIN7491607

# **Claudin 7 Protein (CLDN7)**



#### Overview

Quantity:	100 μg
Target:	Claudin 7 (CLDN7)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Synthetic Nanodisc

## **Product Details**

Purpose:	Human CLDN7 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**

l arget:	Claudin / (CLDN/)
Alternative Name:	CLDN7 (CLDN7 Products)
Background:	This gene encodes a member of the claudin family. Claudins are integral membrane proteins
	and components of tight junction strands. Tight junction strands serve as a physical barrier to
	prevent solutes and water from passing freely through the paracellular space between epithelial
	or endothelial cell sheets, and also play critical roles in maintaining cell polarity and signal
	transductions. Differential expression of this gene has been observed in different types of

## **Target Details**

	malignancies, including breast cancer, ovarian cancer, hepatocellular carcinomas, urinary
	tumors, prostate cancer, lung cancer, head and neck cancers, thyroid carcinomas, etc
	Alternatively spliced transcript variants encoding different isoforms have been found.[provided
	by RefSeq, May 2010]
Molecular Weight:	The human full length CLDN7 protein has a MW of 22.9 kDa
UniProt:	095471
Pathways:	Hepatitis C

## **Application Details**

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Comment	
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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