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Datasheet for ABIN7491545 Apelin Receptor Protein (APLNR)

2 Images



Overview

Quantity:	100 µg
Target:	Apelin Receptor (APLNR)
Origin:	Human
Source:	HEK-293 Cells
Protein Type:	Synthetic Nanodisc

Product Details

Purpose:	Human APLNR 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:	Apelin Receptor (APLNR)
Alternative Name:	APLNR (APLNR Products)
Background:	A member of the G protein-coupled receptor gene family. The encoded protein is related to the
	angiotensin receptor, but is actually an apelin receptor that inhibits adenylate cyclase activity
	and plays a counter-regulatory role against the pressure action of angiotensin II by exerting
	hypertensive effect. It functions in the cardiovascular and central nervous systems, in glucose
	metabolism, in embryonic and tumor angiogenesis and as a human immunodeficiency virus

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Target Details	
	(HIV-1) coreceptor. Two transcript variants resulting from alternative splicing have been identified.
Molecular Weight:	The human full length APLNR protein has a MW of 42.7 kDa
UniProt:	P35414
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

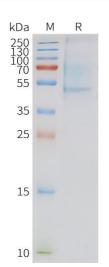
Restrictions:

For Research Use only

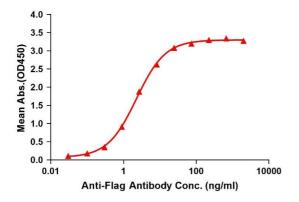
Handling

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

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



SDS-PAGE

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

ELISA

Image 2. Elisa plates were pre-coated with Flag Tag APLNR-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 APLNR-Nanodisc is 2.278 ng/mL.

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