

[Go to Product page](#)

Datasheet for ABIN7491545

Apelin Receptor Protein (APLNR)

Overview

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

Purpose:	Human APLNR full length protein-synthetic nanodisc
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Characteristics:	Full Length Transmembrane Proteins (synthetic Nanodisc)
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Target Details

Target:	Apelin Receptor (APLNR)
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Alternative Name:	APLNR (APLNR Products)
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Background:	AGTRL1, APJ, APJR, HG11
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Description: This gene encodes 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 (HIV-1) coreceptor. Two transcript variants resulting from alternative splicing have been identified. [provided by RefSeq, Jul 2009]

Molecular Weight:	The human full length APLNR protein has a MW of 42.7 kDa
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Target Details

UniProt: [P35414](#)

Application Details

Application Notes:

- Applications for VLPs:
- ELISA
- SPR affinity analysis
- Phage display screening
- Immunization
- Cell based assays
- CAR-T cell screening
- Protein crystal structure analysis

Comment: 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.

Restrictions: For Research Use only

Handling

Format: Liquid

Buffer: Supplied in nanodisc solubilization buffer (20 mM Tris-HCl, 150 mM NaCl, pH 8.0)

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