

## **PRODUCT INFORMATION**

Warning: Undefined variable ShasAttributeValueDescription in C:\www.root\mirror.dimablo.com\wp-content\plugins\woocommerce-print-products\public\class-woocommerce-print-products-public.php on line 2806 C-Flag Tag

AGTRL1; APJ; APJR; HG11

Human APLNR full length protein-synthetic nanodisc

Delivery Uniprot ID P35414 HEK293 **Expression Host** 

Protein Families Druggable Genome, GPCR, Transmembrane Neuroactive ligand-receptor interaction Protein Pathways

The human full length APLNR protein has a MW of 42.7 kDa

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. Please see Certificate of Analysis for specific instructions of reconstitution.

lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution. 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.

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 if by exerting hypertensive effect. immunodeficiency virus (HIV-1) coreceptor. Two transcript variants resulting from alternative splicing have been identified.

Research use only

Conjugate Unconjugated

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

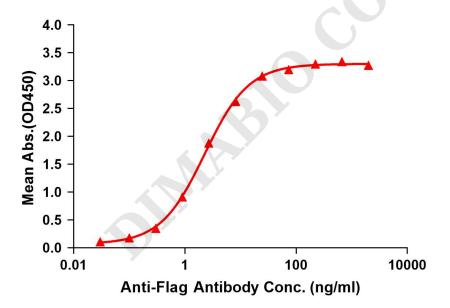
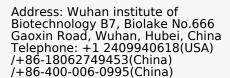


Figure 1. Elisa plates were pre-coated with Flag Tag APLNR-Nanodisc (0.2渭g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with APLNR-Nanodisc is 2.278ng/ml.

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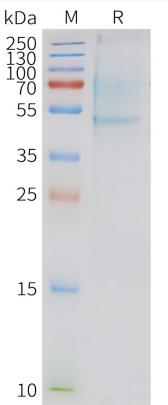


Figure 2. Human APLNR-Nanodisc, Flag Tag on SDS-PAGE

## SPR assay to evaluate APLNR-Nanodisc

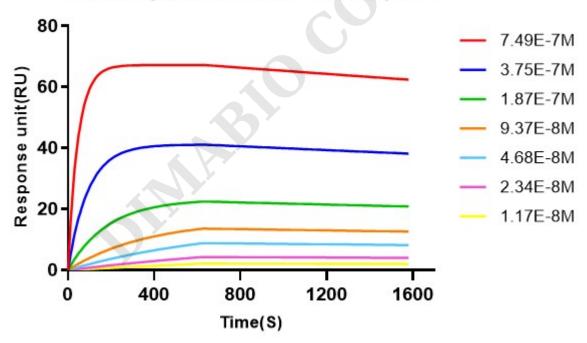


Figure 3. Loaded Human APLN Protein, hFc Tag (PME101355) on Pro-A Biosensor, can bind Human APLNR full length protein-synthetic nanodisc (FLP100132) with an affinity constant of 2.77 nM as determined in SPR assay.

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