Cat. No. FLP100132



PRODUCT INFORMATION

C-Flag Tag Tag **APLNR Target**

Synonyms AGTRL1; APJ; APJR; HG11

Human APLNR full length protein-synthetic **Description**

nanodisc **Delivery** In Stock **Uniprot ID** P35414 **Expression Host HEK293**

Protein Families Druggable Genome, GPCR, Transmembrane

Protein Pathways Neuroactive ligand-receptor interaction

The human full length APLNR protein has a MW of **Molecular Weight**

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 Formulation & 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). Storage & Shipping Lyophilized proteins are shipped at ambient

temperature.

A member of the G protein-coupled receptor gene a member of the G protein-coupled receptor ger 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

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identified.

Usage Research use only Conjugate Unconjugated

Background





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

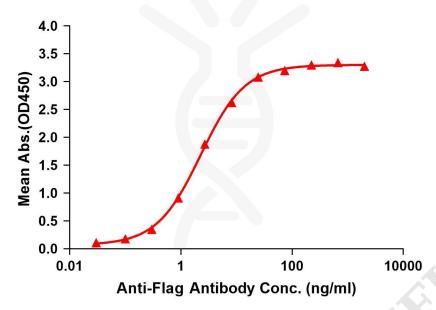


Figure 1. Elisa plates were pre-coated with Flag Tag APLNR-Nanodisc (0.2渭g/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with APLNR-Nanodisc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



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

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SPR assay to evaluate APLNR-Nanodisc

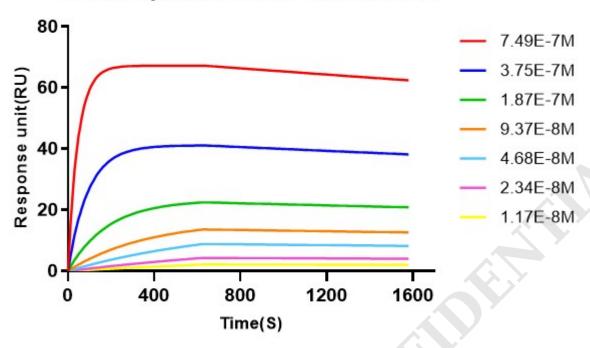


Figure 3. Loaded Human APLN Protein, hFc Tag (PME101355) on Pro-A Biosensor, can bind Human APLNR full length protein-synthetic nanodisc (FLP100132) with an affinity constant of 2.77 nM as determined in SPR assay.



