HUMAN APLNR FULL LENGTH PROTEIN

Cat.#: 11113
Product Name: Human APLNR Full Length Protein
Size : 10 µg; 50 µg and 100 µg
Synonyms: AGTRL1; APJ; APJR; HG11
Target: APLNR
UNIPROT ID: P35414
Description: Human APLNR Full Length Protein-Synthetic Nanodisc
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 (HIV-1) coreceptor. Two transcript variants resulting from alternative splicing have been identified.
Species/Host: HEK293
Molecular Weight: The human full length APLNR protein has a MW of 42.7 kDa
Formulation & Reconstitution: 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 & Shipping: Store at -20ºC to -80ºC for 12 months in lyophilized form. After reconstitution, if not intended for use within a month, aliquot and store at -80ºC (Avoid repeated freezing and thawing). Lyophilized proteins are shipped at ambient temperature.
Protein Families: Druggable Genome, GPCR, Transmembrane
Protein Pathways: Neuroactive ligand-receptor interaction

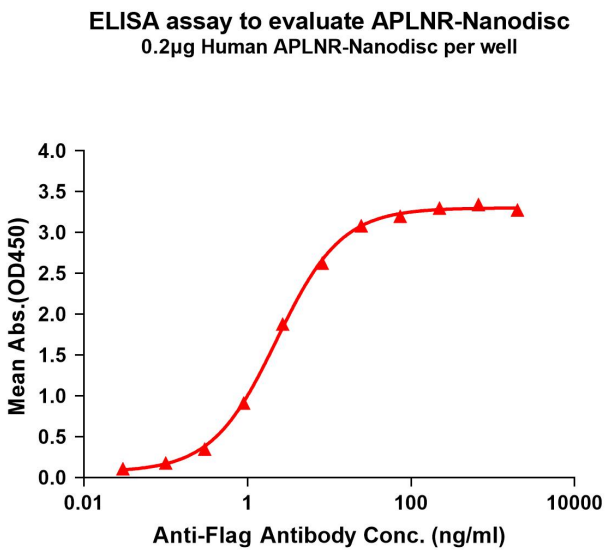

Figure 1. Elisa plates were pre-coated with Flag Tag APLNR-Nanodisc (0.2µg/per well). Serial diluted anti-Flag monoclonal antibody solutions were added, washed, and incubated with secondary antibody before Elisa reading. From above data, the EC50 for anti-Flag monoclonal antibody binding with APLNR-Nanodisc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

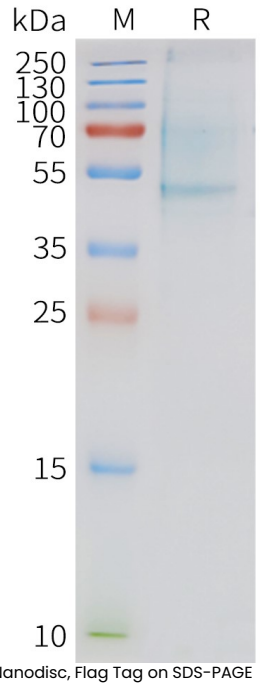

Figure 2. Human APLNR-Nanodisc, Flag Tag on SDS-PAGE