PRODUCT INFORMATION

Target	APLN
Synonyms	APEL;XNPEP2
Description	Recombinant human APLN Protein with C-terminal human Fc tag
Delivery	In Stock
Uniprot ID	Q9ULZ1
Expression Host	HEK293
Tag	C-Human Fc Tag
Molecular Characterization	APLN(Gly23-Phe77) hFc(Glu99-Ala330)
Molecular Weight	The protein has a predicted molecular mass of 32.3 kDa after removal of the signal peptide. The apparent molecular mass of APLN-hFc is approximately 25-55 kDa due to glycosylation.
Purity	The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.
Formulation & Reconstitution	Lyophilized from sterile PBS, pH 7.4. Normally 5 % – 8% trehalose is added as protectants before lyophilization. Please see Certificate of Analysis for specific instructions of reconstitution.
Storage&Shipping	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.
Background	This gene encodes a peptide that functions as an endogenous ligand for the G-protein coupled apelin receptor. The encoded preproprotein is proteolytically processed into biologically active C-terminal peptide fragments. These peptide fragments activate different tissue specific signaling pathways that regulate diverse biological functions including fluid homeostasis, cardiovascular function and insulin secretion. This protein also functions as a coreceptor for the human immunodeficiency virus 1. [provided by RefSeq, Feb 2016]
Usage	Research use only
Conjugate	Unconjugated

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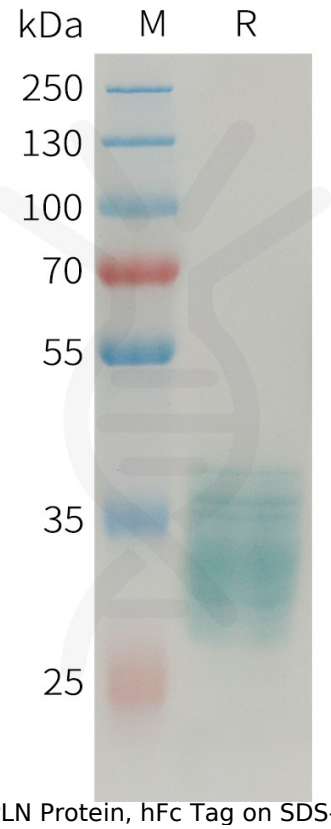


Figure 1. Human APLN Protein, hFc Tag on SDS-PAGE under reducing condition.

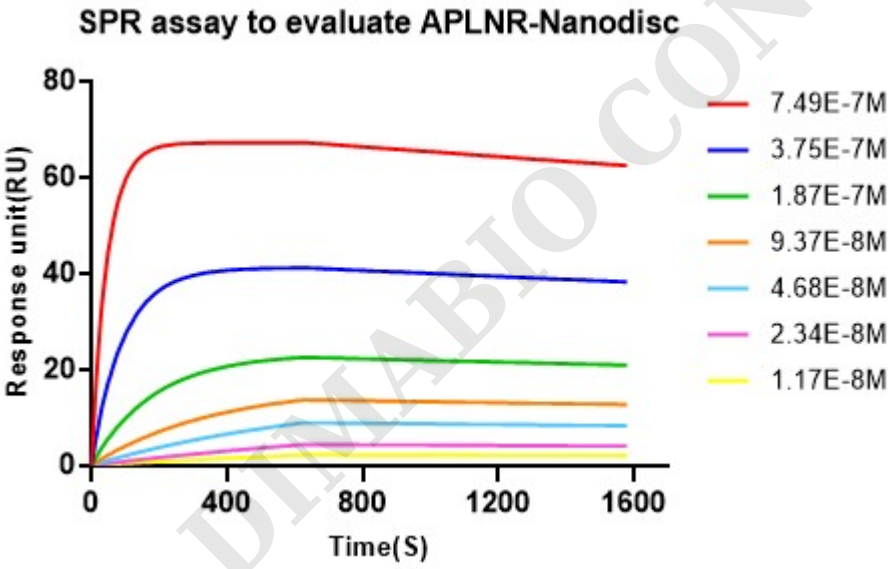


Figure 2. Loaded Human APLN Protein, hFc Tag (PME101355) on Pro-A Biosensor, can bind Human APLNR full length protein-synthetic nanodisc (FLP100132) with an affinity constant of 2.77 nM as determined in SPR assay.

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