HUMAN APLN PROTEIN

Cat.#: 12281

Product Name: Human APLN Protein

Size : 10 µg, 50 µg and 100 µg

Synonyms: APEL;XNPEP2

Target: APLN

UNIPROT ID: Q9ULZ1

Description: Recombinant human APLN Protein with C-terminal human Fc tag

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]

Species/Host: HEK293

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.

Molecular Characterization: APLN(Gly23-Phe77) hFc(Glu99-Ala330)

Purity: The purity of the protein is greater than 95% as determined by SDS-PAGE and Coomassie blue staining.

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 -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.

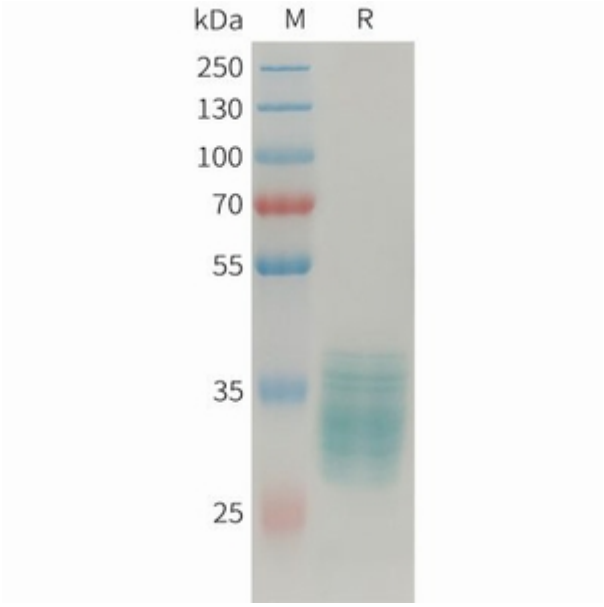

Figure 1. Human APLN Protein, hFc Tag on SDS-PAGE under reducing condition.