

**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.