# Human APLN Protein

**Cat. No.** APN-HM201

## Description

| | |
|---|---|
| **Source** | Recombinant Human APLN Protein is expressed from HEK293 with hFc tag at the C-Terminus. |
| | It contains Gly23-Phe77. |
| **Accession** | Q9ULZ1 |
| **Molecular Weight** | The protein has a predicted MW of 32.9 kDa. Due to glycosylation, the protein migrates to 35-40 kDa based on Bis-Tris PAGE result. |
| **Endotoxin** | Less than 1EU per μg by the LAL method. |
| **Purity** | > 95% as determined by Bis-Tris PAGE |

## Formulation and Storage

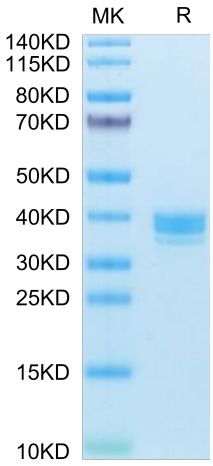
| | |
|---|---|
| **Formulation** | Supplied as 0.22μm filtered solution in PBS (pH 7.4). |
| **Storage** | Valid for 12 months from date of receipt when stored at -80°C. Recommend to aliquot the protein into smaller quantities for optimal storage. Please minimize freeze-thaw cycles. |

## Background

Macrophages play key roles during cardiovascular diseases (CVD) and their related complications.Apelin (APLN) is a key molecule, whose roles during CVD have been documented previously. Therefore, it has been hypothesized that APLN may perform its roles via modulation of macrophages. Additionally, due to the widespread distribution of the CVD, more effective therapeutic strategies need to be developed to overcome the related complications.

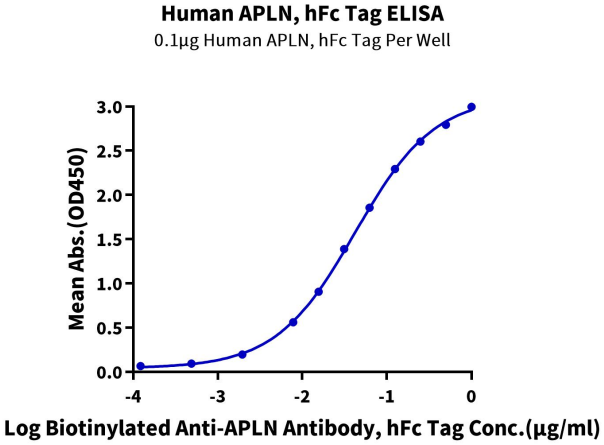
## Assay Data

### Bis-Tris PAGE




Human APLN on Bis-Tris PAGE under reduced condition. The purity is greater than 95%.

### ELISA Data




Immobilized Human APLN, hFc Tag at 1μg/ml (100μl/Well) on the plate. Dose response curve for Biotinylated Anti-APLN Antibody, hFc Tag with the EC50 of 42.2ng/ml determined by ELISA.