

Human APLN Protein

Cat. No. APN-HM201

Description

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| 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

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| Formulation | Lyophilized from 0.22 μm filtered solution in PBS, 200mM Arginine (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization. |
| Reconstitution | Centrifuge the tube before opening. Reconstituting to a concentration more than 100 $\mu\text{g}/\text{ml}$ is recommended. Dissolve the lyophilized protein in distilled water. |
| Storage | -20 to -80°C for 24 months as supplied from date of receipt. -80°C for 3 months after reconstitution. 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

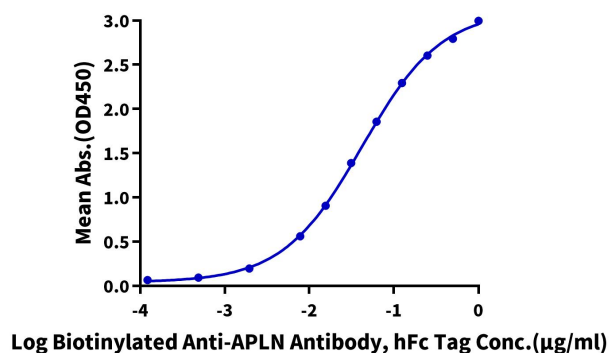
Bis-Tris PAGE



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

ELISA Data

Human APLN, hFc Tag ELISA
0.1 μg Human APLN, hFc Tag Per Well



Immobilized Human APLN, hFc Tag at 1 $\mu\text{g}/\text{ml}$ (100 $\mu\text{l}/\text{Well}$) on the plate. Dose response curve for Biotinylated Anti-APLN Antibody, hFc Tag with the EC50 of 42.2ng/ml determined by ELISA.