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 Tris-Bis PAGE result.
Endotoxin	Less than 1EU per μg by the LAL method.
Purity	> 95% as determined by Tris-Bis PAGE

Formulation and Storage

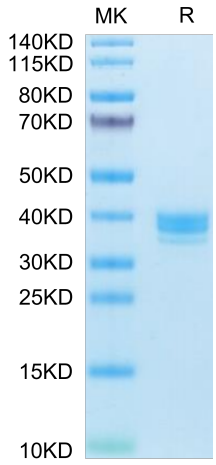
Formulation	Lyophilized from 0.22μm filtered solution in PBS, 200mM Arginine (pH 7.4). Normally 8% trehalose is added as protectant before lyophilization.
Reconstitution	Centrifuge the tube before opening. Reconstituting to a concentration more than 100 μg/ml is recommended. Dissolve the lyophilized protein in distilled water.
Storage	-20 to -80°C for 12 months as supplied from date of receipt.-20 to -80°C for 3-6 months in unopened state after reconstitution.2-8°C for 2-7 days 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

Tris-Bis PAGE



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

ELISA Data

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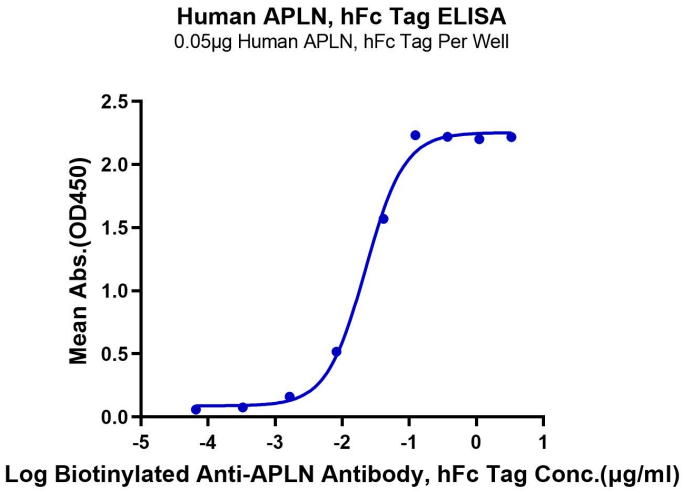
Assay Data



Immobilized Human APLN, hFc Tag at 0.5μg/ml (100μl/Well) on the plate. Dose response curve for Biotinylated Anti-APLN Antibody, hFc Tag with the EC50 of 22.2ng/ml determined by ELISA.

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