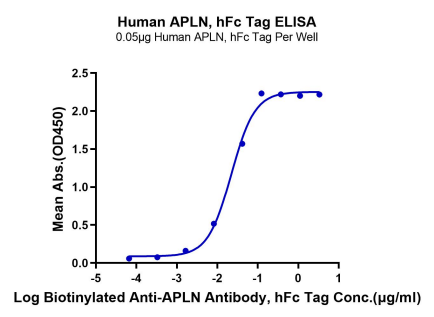
Bioactive HuPro®

APLN (Human) Recombinant Protein

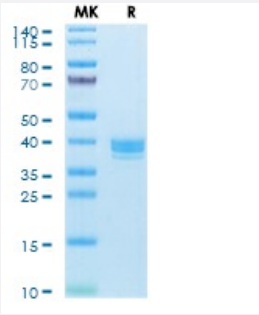
Catalog # P9933 Size 100 ug

Applications



Enzyme-linked Immunoabsorbent Assay

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



Tris-Bis PAGE

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

Specification

Product Description	Human APLN (Q9ULZ1, Gly23-Phe77) partial recombinant protein with hFc tag at C-Terminus expressed in HEK293 cells.
Sequence	Gly23-Phe77
Host	Human
Theoretical MW (kDa)	32.9
Form	Lyophilized
Preparation Method	Mammalian cell (HEK293) expression system

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Purity	> 95% as determined by Tris-Bis PAGE
Endotoxin Level	< 1 EU per 1 ug of protein (determined by LAL method)
Activity	The EC_{50} was 22.2 ng/mL, messured by ELISA at 0.5 ug/mL.
Quality Control Testing	Tris-Bis PAGE Tris-Bis PAGE Human APLN on Tris-Bis PAGE under reduced condition. The purity is greater than 95%.
Recommend Usage	Biological Activity ELISA SDS-PAGE The optimal working dilution should be determined by the end user.
Storage Buffer	Lyophilized from sterile distilled Water is > 100 ug/mL
Storage Instruction	Store at 2°C to 8°C for 1 week. For long term storage, aliquot and store at -20°C to -80°C. Aliquot to avoid repeated freezing and thawing.
Note	Result of bioactivity analysis

Applications

- Functional Study
- Enzyme-linked Immunoabsorbent Assay

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

Gene Info — APLN

Entrez GeneID	8862
Protein Accession#	Q9ULZ1
Gene Name	APLN
Gene Alias	XNPEP2
Gene Description	apelin
Omim ID	300297

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Gene Ontology	Hyperlink
Gene Summary	Apelin is a neuropeptide expressed in the supraoptic and paraventricular nuclei that acts on specific receptors located on vasopressinergic neurons (De Mota et al., 2004) [PubMed 15231996].[supplied by OMIM
Other Designations	apelin, AGTRL1 ligand|peptide ligand for APJ receptor

Pathway

- Neuroactive ligand-receptor interaction

Disease

- Cardiomyopathy
- Cardiovascular Diseases
- Diabetes Mellitus
- Disease Progression
- Edema
- Hypertension

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