

## Recombinant Human APLN protein, His-tagged

**Cat. No.** APLN-8261H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Human APLN aa. (Ser24~Phe77 (Accession # Q9ULZ1)) fused with N-terminal His tag was produced in E. coli cells.
<b>Species</b>	Human
<b>Source</b>	E.coli
<b>ProteinLength</b>	Ser24~Phe77
<b>Description</b>	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.
<b>Form</b>	Freeze-dried powder
<b>Molecular Mass</b>	10kDa as determined by SDS-PAGE reducing conditions.
<b>Endotoxin</b>	<1.0EU per 1ug (determined by the LAL method)
<b>Purity</b>	>95%

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<b>Characteristic</b>	The isoelectric point is 11.9.
<b>Applications</b>	SDS-PAGE; WB; ELISA; IP.
<b>Stability</b>	The thermal stability is described by the loss rate of the target protein. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. (Referring from China Biological Products Standard, which was calculated by the Arrhenius equation.) The loss of this protein is less than 5% within the expiration date under appropriate storage condition.
<b>Storage</b>	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
<b>Storage Buffer</b>	Supplied as lyophilized form in 20mM Tris, 500mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.
<b>Reconstitution</b>	Reconstitute in ddH <sub>2</sub> O.
<b>GENE INFORMATION</b>	
<b>Gene Name</b>	APLN apelin [ Homo sapiens (human) ]
<b>Official Symbol</b>	APLN
<b>Synonyms</b>	APLN; apelin; APEL; XNPEP2; AGTRL1 ligand; APJ endogenous ligand
<b>Gene ID</b>	8862
<b>mRNA Refseq</b>	NM_017413.4

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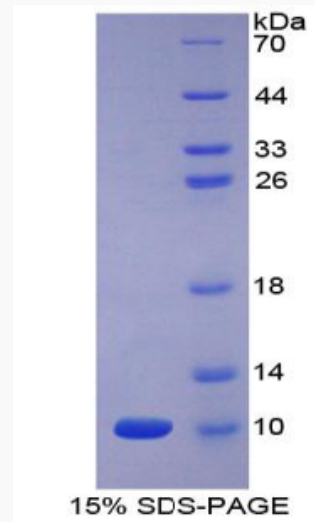
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Protein Refseq NP\_059109.3

UniProt ID Q9ULZ1

SDS-PAGE



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