

Recombinant Human APLN protein, His-tagged

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

SPECIFICATION

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

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Characteristic	The isoelectric point is 11.9.
Applications	SDS-PAGE; WB; ELISA; IP.
Stability	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.
Storage	Avoid repeated freeze/thaw cycles. Store at 2-8°C for one month. Aliquot and store at -80°C for 12 months.
Storage Buffer	Supplied as lyophilized form in 20mM Tris, 500mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% trehalose, and preservative.
Reconstitution	Reconstitute in ddH ₂ O.

GENE INFORMATION

Gene Name	APLN apelin [Homo sapiens (human)]
Official Symbol	APLN
Synonyms	APLN; apelin; APEL; XNPEP2; AGTRL1 ligand; APJ endogenous ligand
Gene ID	8862
mRNA Refseq	NM_017413.4

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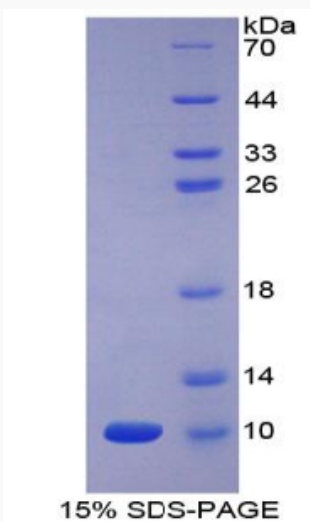
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Protein Refseq NP_059109.3

UniProt ID Q9ULZ1

SDS-PAGE



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