

Recombinant Human APLN protein, His & MBP-tagged

Cat. No. APLN-8262H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant Human APLN aa. (Ser24~Phe77) fused with N-terminal His & MBP 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	56kDa as determined by SDS-PAGE reducing conditions.
Endotoxin	<1.0EU per 1ug (determined by the LAL method)
Purity	>95%

 Tel: 1-631-559-9269 1-516-512-3133

 Email: info@creative-biomart.com  Fax: 1-631-938-8127

 45-1 Ramsey Road, Shirley, NY 11967, USA

Characteristic	The isoelectric point is 11.9.
Applications	SDS-PAGE; WB; ELISA; IP; CoIP; Purification; Amine Reactive Labeling.
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.
Concentration	200µg/mL
Storage Buffer	20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5% Trehalose and Proclin300.
Reconstitution	Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0mg/mL. Do not vortex.

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

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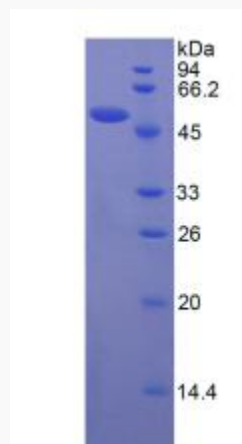
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mRNA Refseq [NM_017413.4](#)

Protein Refseq [NP_059109.3](#)

UniProt ID [Q9ULZ1](#)

SDS-PAGE



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