

## Recombinant Mouse Apln protein, His & GST-tagged

Cat. No. Apln-8263M Lot. No. (See product label)

### SPECIFICATION

**Product Overview** Recombinant Mouse Apln aa. (Val23~Phe77 (Accession # Q9R0R4)) fused with N-terminal His & GST tag was produced in E. coli cells.

**Species** Mouse

**Source** E.coli

**ProteinLength** Val23~Phe77

**Description** This gene encodes the neuropeptide Apelin, an endogenous ligand of the G protein-coupled receptor APJ. This gene is highly expressed in the central nervous system and peripheral tissues and the encoded preproprotein undergoes proteolytic processing to generate mature peptides of different sizes that are secreted into the plasma. These peptides play important roles in a broad range of physiological processes such as cardiac contractility, blood pressure, blood vessel growth, appetite and drink behavior, and pituitary hormone secretion. Mice lacking the encoded protein develop progressive heart failure and exhibit a shorter bleeding time, prothrombotic profile and increased bone mass.

**Form** Freeze-dried powder

**Molecular Mass** Predicted Molecular Mass: 38.6kDa.

**Endotoxin** <1.0EU per 1ug (determined by the LAL method)

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

 Email: [info@creative-biomart.com](mailto:info@creative-biomart.com)  Fax: 1-631-938-8127

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

<b>Purity</b>	>95%
<b>Characteristic</b>	The isoelectric point is 8.8.
<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, 150mM 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.

## GENE INFORMATION

<b>Gene Name</b>	<a href="#">Apln apelin [ Mus musculus (house mouse) ]</a>
<b>Official Symbol</b>	<a href="#">Apln</a>
<b>Synonyms</b>	Apln; apelin; Apel; 6030430G11Rik; APJ endogenous ligand; preproapelin
<b>Gene ID</b>	<a href="#">30878</a>

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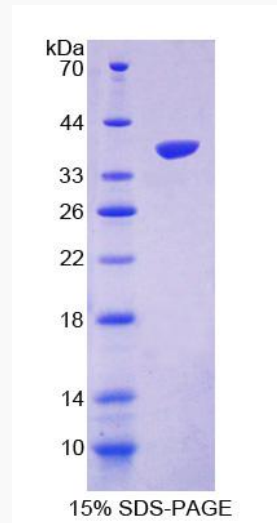
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mRNA Refseq [NM\\_013912.4](#)

Protein Refseq [NP\\_038940.1](#)

UniProt ID [Q9R0R4](#)

**SDS-PAGE**



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