

RPA275Ra01 100µg
Recombinant Natriuretic Peptide Precursor A (NPPA)
Organism Species: Rattus norvegicus (Rat)
Instruction manual

FOR IN VITRO USE AND RESEARCH USE ONLY
NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

12th Edition (Revised in Aug, 2016)

[PROPERTIES]

Source: Prokaryotic expression.

Host: *E. coli*

Residues: Asn25~Arg152

Tags: Two N-terminal Tags, His-tag and GST-tag

Tissue Specificity: Heart.

Subcellular Location: Secreted.

Purity: >95%

Traits: Freeze-dried powder

Buffer formulation: 20mM Tris, 150mM NaCl, pH8.0, containing 1mM EDTA, 1mM DTT, 0.01% sarcosyl, 5%Trehalose and Proclin300.

Original Concentration: 200ug/mL

Applications: Positive Control; Immunogen; SDS-PAGE; WB.

(May be suitable for use in other assays to be determined by the end user.)

Predicted isoelectric point: 6.4

Predicted Molecular Mass: 43.9kDa

Accurate Molecular Mass: 44kDa as determined by SDS-PAGE reducing conditions.

[USAGE]

Reconstitute in 20mM Tris, 150mM NaCl (pH8.0) to a concentration of 0.1-1.0 mg/mL. Do not vortex.

[STORAGE AND STABILITY]

Storage: Avoid repeated freeze/thaw cycles.

Store at 2-8°C for one month.

Aliquot and store at -80°C for 12 months.

Stability Test: The thermal stability is described by the loss rate. 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. The loss rate is less than 5% within the expiration date under appropriate storage condition.

[SEQUENCE]

NPVYSA VSNTDLMDFK NLLDHLEEKM
 PVEDEVMP PQ ALSEQTDEAG AALSSLSEVP PWTGEVNPSQ RDGGALGRGP
 WPSDRSALL KSKLRALLAG PRSLRRSSCF GGRIDRIGAQ SGLGCNSFRY
 RR

[IDENTIFICATION]

TAT CCGCTATAGAGTCCGCTGTCACACAGATCTGTGTGATTTCAAGAACTCTGACCACTGGAGGAGAGATCCCGGTGAGATGAGGTCATGCTCCGCGAGCCCTGAGGAGCAGCCGATGAAACCGGAGCGCCACTTATGCTCCCTCTTGAGTCCCTCCCTGGACTGGGAACTCAACCCGCTCAGAGAGTTGAGC
 R P V Y S A V S H T D L H D F K H L L D B L E R K H P V E D E V H P P Q A L S E Q T D E A G A A L S S L S E V P P V T G E V H P S Q R D G G

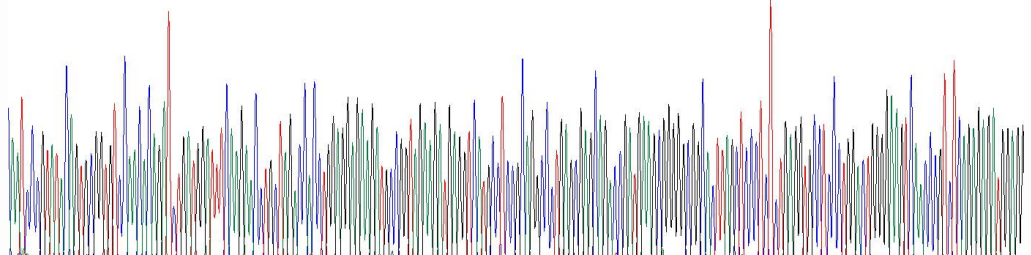


Figure 1. Gene Sequencing (Extract)

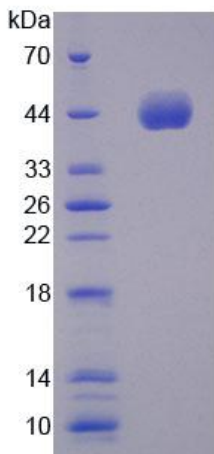


Figure 2. SDS-PAGE