

**RPA503Hu01 50 $\mu$ g**  
**Recombinant Natriuretic Peptide Precursor B (NPPB)**  
**Organism Species: Homo sapiens (Human)**  
***Instruction manual***

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

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12th Edition (Revised in Aug, 2016)

## [ **PROPERTIES** ]

**Source:** Prokaryotic expression.

**Host:** *E. coli*

**Residues:** His27~His134

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

**Tissue Specificity:** Heart, Brain, Pancreas.

**Subcellular Location:** Secreted.

**Purity:** >98%

**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:** 10.1

**Predicted Molecular Mass:** 41.9kDa

**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.

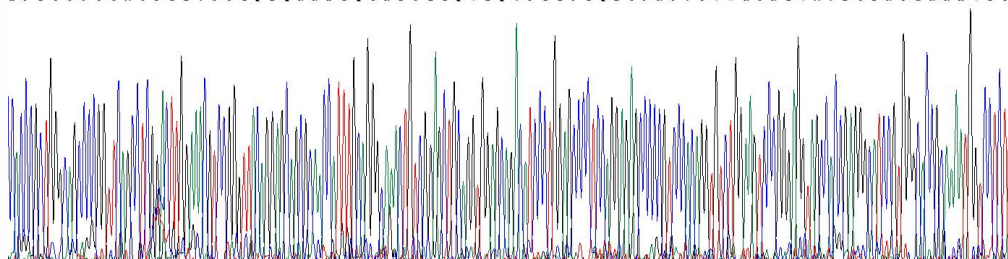
**Stability Test:** The thermal stability is described by the loss rate. The loss rate was determined by accelerated thermal degradation test, that is, incubate the protein at 37°C for 48h, and no obvious degradation and precipitation were observed. The loss rate is less than 5% within the expiration date under appropriate storage condition.

**[ SEQUENCE ]**

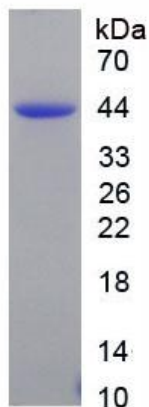
HPLG SPGSASDLET SGLQEQRNHL  
QGKLSLELQVE QTSLEPLQES PRPTGVWKS R EVATEGIRGH RKMVLYTLRA  
PRSPKMVQGS GCFGRKMDRI SSSSGLGCKV LRRH

**[ IDENTIFICATION ]**

TGACCGCTGGGACGCCCGGGTTGACCTCGACTTGGAAACGTCCGGTTACGGAGCGCCGACCATTTGAGGGCAACTGTCTGGAGCTGGAGGGAGAGACATCCCTGAGCCCTCGGGAGAGCCCGCCCTCCGACAGTGTCTGGAGTCCCGGGAGGTAAGCCACCGAGGATCCGTGGGACCCGCAAAATGGTCTTGA  
H P L G S P G S A S D L E T S G L Q E Q R N H L Q G K L S E L Q V E Q T S L E P L Q E S P R P T G V W K S R E V A T E G I R G H R K M V L Y T L R A P R S P K M V Q G S G C F G R K M D R I S S S S G L G C K V L R R H



**Figure 1. Gene Sequencing (Extract)**



**Figure 2. SDS-PAGE**