RPA721Mu02 10µg Recombinant C-Type Natriuretic Peptide (CNP) Organism Species: Mus musculus (Mouse) Instruction manual

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

12th Edition (Revised in Aug, 2016)

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[PROPERTIES]

Source: Prokaryotic expression.

Host: *E. coli*Residues: Leu18~Lys104
Tags: Two N-terminal Tags, His-tag and GST-tag
Tissue Specificity: Liver, Kidney.
Subcellular Location: Secreted.
Purity: >92%
Traits: Freeze-dried powder
Buffer formulation: 100mM NaHCO₃, 500mM NaCl, pH8.3, 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: 10.7

Predicted Molecular Mass: 39.3kDa

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

Phenomenon explanation:

The possible reasons that the actual band size differs from the predicted are as follows:

- 1. Splice variants: Alternative splicing may create different sized proteins from the same gene.
- 2. Relative charge: The composition of amino acids may affects the charge of the protein.
- 3. Post-translational modification: Phosphorylation, glycosylation, methylation etc.
- 4. Post-translation cleavage: Many proteins are synthesized as pro-proteins, and then cleaved to give the active form.
- 5. Polymerization of the target protein: Dimerization, multimerization etc.

[<u>USAGE</u>]

Reconstitute in 100mM NaHCO₃, 500mM NaCl (pH8.3) 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]

LRP SEAKPGTPPK VPRTPPGEEL ADSQAAGGNQ KKGDKTPGSG GANLKGDRSR LLRDLRVDTK SRAAWARLLH EHPNARKYKG GNKK

[IDENTIFICATION]

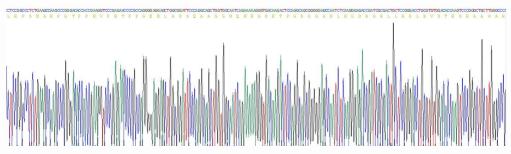


Figure 1. Gene Sequencing (Extract)

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	kDa 70
-	44
	33
	26
	22
	18
2	14
	10

Figure 2. SDS-PAGE