

**RPC918Ra02 200µg**  
**Recombinant Fibroblast Growth Factor 21 (FGF21)**  
**Organism Species: *Rattus norvegicus* (Rat)**  
***Instruction manual***

FOR RESEARCH USE ONLY  
NOT FOR USE IN CLINICAL DIAGNOSTIC PROCEDURES

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13th Edition (Revised in Aug, 2023)

## **[ PROPERTIES ]**

**Source:** Prokaryotic expression

**Host:** *E.coli*

**Residues:** Ala29~Ala207

**Tags:** N-terminal His Tag

**Subcellular Location:** Secreted

**Purity:** > 80%

**Traits:** Freeze-dried powder

**Buffer formulation:** PBS, pH7.4, containing 0.01% Sarcosyl, 5% Trehalose.

**Original Concentration:** 300µg/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:** 4.6

**Predicted Molecular Mass:** 21.0kDa

**Accurate Molecular Mass:** 25kDa 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 affect 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.

## **[ USAGE ]**

Reconstitute in 10mM PBS (pH7.4) 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 ]**

AYPI SDSSPLLQFGGQVRQRYLYTDDDQDTEAHLEIRE DGTVVGTAHRSPESLLELKALKPGVVIQILGVKASRFLCQQPDGTLYGSPHFD  
 PEACSFRELLKLDGYNVYQSEAHGLPLRLPQKDSQDPATRGPVRF LMPGLPHEPQE QPGVLPPEPPDVGSSDPLSMVEPLQGRSPSYA

**[ IDENTIFICATION ]**

TGCA TACCGCA TCCC TGACTCAGGCCCC TCCTCGGTTT TGGGGSTCAAGTGGACAGAGGTATCTCTACAGAGATGAGACAGGACACGAGAGCCGACC TGGAGATCAGGGAGGAGGAGACAGTGGTGGCCACAGCAGCCGAGTCGAGAAAGTC TCCTGGAGCTCAAGGCTTGAAGCCAGGGGTCATTCAAATCCCTG  
 A Y P I P D S S P L L Q F G G Q V R Q R Y L Y T D D D Q D T E A H L E I R E D G T V V G T A R R S P E S L L E L K A L K P G V I Q I L (

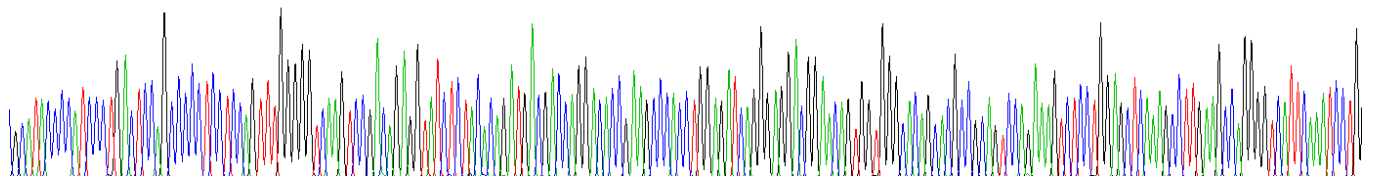


Figure. Gene Sequencing (Extract)

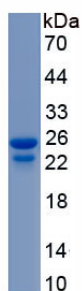


Figure. SDS-PAGE

**[ IMPORTANT NOTE ]**

The kit is designed for research use only, we will not be responsible for any issue if the kit was used in clinical diagnostic or any other procedures.